					DEPARTMENT					AMI	FC ENDED REPO	ORM 3	
		AF	PPLICATION FO	OR PERM	IIT TO DRILL				1. WELL NAMI		R 021-23C1CS		
2. TYPE O	F WORK	DRILL NEW WELL	REENTER	P&A WELL	_ DEEPEN	WELL ()		3. FIELD OR V	/ILDCAT	RAL BUTTES		
4. TYPE O	F WELL				hane Well: NO				5. UNIT or CO		ON AGREEN	IENT NAI	ΛE
6. NAME (OF OPERATOR		KERR-MCGEE OIL						7. OPERATOR	PHONE	929-6515		
8. ADDRE	SS OF OPERAT	OR			<u> </u>				9. OPERATOR	E-MAIL			
	AL LEASE NUM	BER	P.O. Box 173779		INERAL OWNERS	SHIP			12. SURFACE	julie.jacobso DWNERSHIP	n@anadarko	.com	
		JTU 0149075		FEC	DERAL (III) IND	DIAN 🔵	STATE () FEE	FEDERAL) INDIAN (_	EE 💮
13. NAME	OF SURFACE	OWNER (if box 12 :	= 'fee')						14. SURFACE	OWNER PHO	NE (if box 12	! = 'fee')	
15. ADDR	ESS OF SURFA	CE OWNER (if box	12 = 'fee')						16. SURFACE	OWNER E-MA	AIL (if box 12	2 = 'fee')	
	N ALLOTTEE O	R TRIBE NAME			TEND TO COMM		RODUCTION	FROM	19. SLANT				
(II box 12	,	te Indian Tribe		YES	S (Submit C	Commingli	ing Applicatio	n) NO	VERTICAL (DIRECTIO	ONAL 📵 I	HORIZON	ΓAL 🔵
20. LOC	ATION OF WELL	-		FOOTAGE	ES	QTF	R-QTR	SECTION	TOWNSI	IIP	RANGE	МЕ	ERIDIAN
LOCATIO	N AT SURFACE		790	FNL 196	3 FWL	NE	ENW	23	9.0 S		21.0 E		S
Top of U	ppermost Proc	lucing Zone	413	FNL 214	5 FWL	NE	ENW	23	9.0 S		21.0 E		S
At Total	Depth		413	FNL 214	5 FWL	NE	ENW	23	9.0 S		21.0 E		S
21. COUN	ITY	UINTAH		22. DI	STANCE TO NEA	REST LEA		et)	23. NUMBER (F ACRES IN D	ORILLING UN 640	IIT	
					STANCE TO NEA ied For Drilling	or Compl	leted)	POOL	26. PROPOSE	D DEPTH MD: 11090) TVD: 110	061	
27. ELEV	ATION - GROUN	ID LEVEL		28. BC	OND NUMBER	449	9		29. SOURCE (F DRILLING V	NATER /		
		4844				WYB00	00291		WATER RIGHT		NUMBER IF A 3-8496	APPLICAB	LE
					Hole, Casing								
String	Hole Size	Casing Size	Length	Weight			Max Mu		Cemer		Sacks	Yield	Weight
Surf	11	8.625	0 - 2880	28.0	J-55 LT	I&C	0.2	-	Type \		180 270	1.15	15.8 15.8
Prod	7.875	4.5	0 - 11090	11.6	HCP-110	LT&C	13.0	0 1	remium Lite Hig		350	3.38	12.0
									50/50 P	oz	1570	1.31	14.3
					А	TTACH	MENTS						
	VEF	RIFY THE FOLLO	WING ARE AT	TACHED	IN ACCORDAN	ICE WITI	H THE UTA	H OIL AND G	AS CONSERVA	TION GENER	RAL RULES	i	
⊮ w	ELL PLAT OR M	AP PREPARED BY I	LICENSED SURVE	YOR OR E	NGINEER		COMP	LETE DRILLIN	G PLAN				
AF	FIDAVIT OF STA	ATUS OF SURFACE	OWNER AGREEM	IENT (IF FE	EE SURFACE)		FORM	5. IF OPERATO	R IS OTHER THAN	THE LEASE (OWNER		
I DII	RECTIONAL SU	RVEY PLAN (IF DIR	ECTIONALLY OR	HORIZON	ITALLY DRILLED))	торос	GRAPHICAL MA	ιP				
NAME D	anielle Piernot			TITLE R	egulatory Analys	t		PHONE	20 929-6156				
SIGNATU	IRE			DATE 0	5/23/2012			EMAIL d	anielle.piernot@an	adarko.com			
	BER ASSIGNED 047527150			APPROV	VAL			B	a garage				
								Pe	rmit Manager				

NBU 921-23C Pad Drilling Program

1 of 4

Kerr-McGee Oil & Gas Onshore, L.P.

NBU 921-23C1CS

Surface: 790 FNL / 1963 FWL NENW NENW NENW NENW

Section 23 T9S R21E

Unitah County, Utah Mineral Lease: UTU 0149075

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2.a <u>Estimated Tops of Important Geologic Markers</u>: Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta Green River Birds Nest Mahogany Wasatch Mesaverde Sego	0 - Surface 1,581' 1,920' 2,425' 4,948' 7,781'	Water Water Gas Gas Gas
Castlegate MN5 TVD = TD =	10,070' 10,461' 11,061' 11,090'	Gas Gas

2.c Kerr McGee Oil & Gas Onshore LP (Kerr McGee) will either drill to the the Blackhawk formation, which is part of the Mesaverde formation, or the Wasatch/Mesaverde formation. If Kerr McGee drills to the Blackhawk formation (part of the Mesaverde formation), please refer to MN5 as the bottom formation. The attached Blackhawk Drilling Program includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the deeper formation.

If Kerr McGee drills to the Wasatch/Mesaverde formation please refer to Sego as the bottom formation. The attached Wasatch/Mesaverde Drilling Program includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the depths the Wasatch/Mesaverde formations are found.

NBU 921-23C Pad Drilling Program 2 of 4

3. <u>Pressure Control Equipment</u> (Schematic Attached)

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

4. <u>Proposed Casing & Cementing Program:</u>

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

5. Drilling Fluids Program:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

6. Evaluation Program:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

7. <u>Abnormal Conditions</u>:

7.a Blackhawk (Part of Mesaverde Formation) Target Formation

Maximum anticipated bottom hole pressure calculated at 7,300 psi (0.66 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 4,917 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

7.b Wasach/Mesaverde Target Formation

Maximum anticipated bottom hole pressure calculated at 6,409 psi (0.64 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 4,192 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. <u>Variances:</u>

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program Onshore Order #2 – Air Drilling Variance

 $Kerr-McGee\ Oil\ \&\ Gas\ Onshore\ LP\ (KMG)\ respectfully\ requests\ a\ variance\ to\ several\ requirements\ associated\ with\ air\ drilling\ outlined\ in\ Onshore\ Order\ 2$

- · Blowout Prevention Equipment (BOPE) requirements;
- · Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

NBU 921-23C Pad Drilling Program
3 of 4

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

NBU 921-23C Pad Drilling Program
4 of 4

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

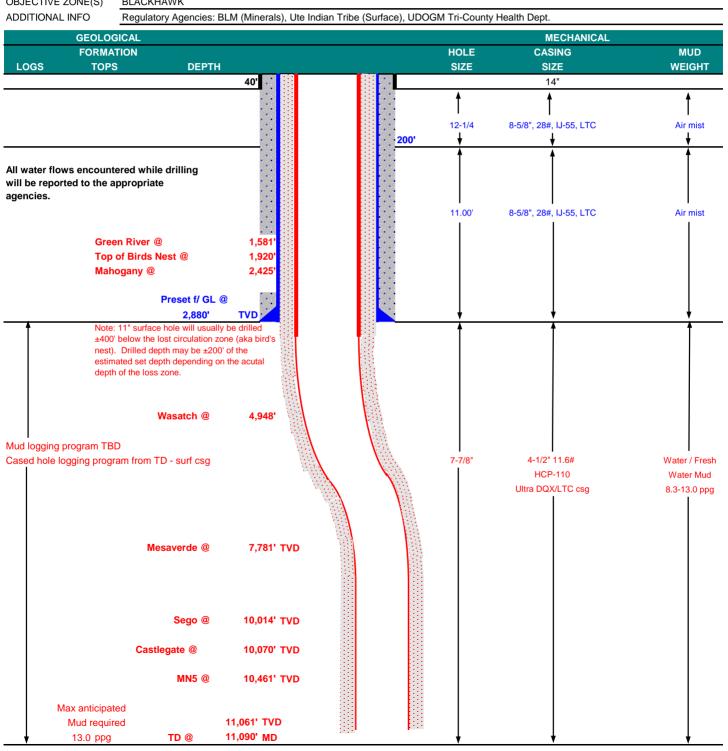
NBU 921-23C Pad Drilling Program

1 of 2



KERR-McGEE OIL & GAS ONSHORE LP BLACKHAWK DRILLING PROGRAM

COMPANY NAME KER	R-McGEE OIL &	GAS ONSHORI	E LP		DATE	December	29, 2011		
WELL NAME NB	U 921-23C1C	S			TD	11,061'	TVD	11,090' MD	
FIELD Natural Butte	S	COUNTY	Uintah	STATE Uta	h	FINIS	SHED ELEVATION_	4,844'	
SURFACE LOCATION	NENW	790 FNL	1963 FWL	Sec 23	T 9S	R 21E			
	Latitude:	40.026656	Longitude	e: -109.52	1424		NAD 83		
BTM HOLE LOCATION	NENW	413 FNL	2145 FWL	Sec 23	T 9S	R 21E			
	Latitude:	40.027688	Longitude	: -109.52	0780		NAD 83		
OBJECTIVE ZONE(S)	BLACKHAWK						_		
ADDITIONAL INFO	Regulatory Age	encies: BLM (Mir	nerals) Ute Indi	ian Tribe (Su	ırface). U	DOGM Tri-Cou	inty Health Dept.		



NBU 921-23C Pad Drilling Program
2 of 2



KERR-McGEE OIL & GAS ONSHORE LP BLACKHAWK DRILLING PROGRAM

CASING PROGRAM

LTC DQX BURST **COLLAPSE TENSION** SIZE. INTERVAL WT GR. **CPLG** 0-40 14" 3,390 1,880 348,000 N/A **IJ-55** 8-5/8" 0 2,880 28.00 LTC 1.87 1.39 4.93 N/A 367,174 10,690 279,000 0 5,000 11.60 HCP-110 DQX 4-1/2" to 1.19 1.16 3.56 HCP-110 4-1/2" 5,000 11,090 11.60 LTC 1.16 4.93 to 1.19

Surface Casing:

PRODUCTION

CONDUCTOR

SURFACE

(Burst Assumptions: TD = 13.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 9000 psi) 0.66 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE LEA	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1		+ 0.25 pps flocele				
TOP OUT CMT (6 jobs	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
		+ 2% CaCl + 0.25 pps flocele				
SURFACE		NOTE: If well will circulate water to	surface, op	tion 2 will be	utilized	
Option 2 LEA	2,380'	65/35 Poz + 6% Gel + 10 pps gilsonite	220	35%	11.00	3.82
		+ 0.25 pps Flocele + 3% salt BWOW				
TAI	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
		+ 0.25 pps flocele				
TOP OUT CM	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION LEA	d 4,440'	Premium Lite II +0.25 pps	350	35%	12.00	3.38
		celloflake + 5 pps gilsonite + 10% gel				
		+ 0.5% extender				
TAI	6,650'	50/50 Poz/G + 10% salt + 2% gel	1,570	35%	14.30	1.31
		+ 0.1% R-3				

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE

Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe

PRODUCTION

Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well.

1 centralizer on the first 3 joints and one every third joint thereafter.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Survev	's will	be	taken	at	1.000'	minimum	intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

	Wost figs flave i v i Gystein for flac	Thorntoning. If no 1 v 1 is available, visual monitoning will be util	izcu.	
DRILLING	ENGINEER:		DATE:	
		Nick Spence / Danny Showers / Chad Loesel	_	
DRILLING	SUPERINTENDENT:		DATE:	
		Kenny Gathings / Lovel Young	_	

DESIGN FACTORS

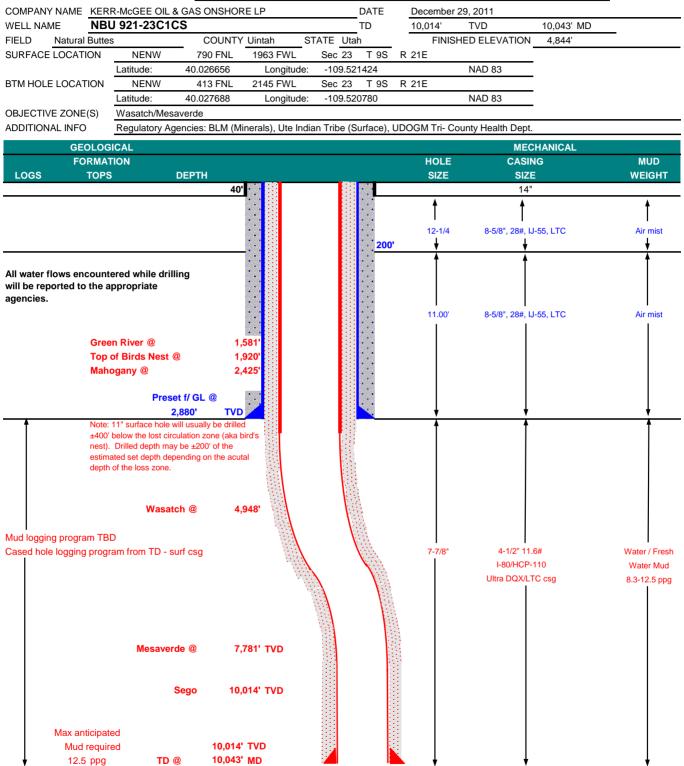
^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

NBU 921-23C Pad Drilling Program

1 of 2



KERR-McGEE OIL & GAS ONSHORE LP WASATCH/MESAVERDE DRILLING PROGRAM



NBU 921-23C Pad Drilling Program 2 of 2



KERR-McGEE OIL & GAS ONSHORE LP

WASATCH/MESAVERDE DRILLING PROGRAM

CASING PROGRAM

CONDUCTOR

SURFACE PRODUCTION

									LTC	DQX
SIZE	INT	ERVA	L	WT.	GR.	CPLG.	BURST	COLLAPSE	T.	NSION
14"	(0-40'								
							3,390	1,880	348,000	N/A
8-5/8"	0	to	2,880	28.00	IJ-55	LTC	1.87	1.39	4.93	N/A
							7,780	6,350		267,035
4-1/2"	0	to	5,000	11.60	I-80	DQX	1.11	0.98		2.83
							10,690	8,650	223,000	
4-1/2"	5,000	to	10,043'	11.60	HCP-110	LTC	1.53	1.33	4.71	

Surface Casing:

(Burst Assumptions: TD =

12.5 ppg)

0.73 psi/ft = frac gradient @ surface shoe

DESIGN FACTORS

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @

7000 ns

0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGH	-TT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80		1.15
Option 1		+ 0.25 pps flocele					
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SURFACE		NOTE: If well will circulate water to	surface, opt	ion 2 will be	utilized		
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		+ 0.25 pps Flocele + 3% salt BWOW					
TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80		1.15
		+ 0.25 pps flocele					
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15
PRODUCTION LEAD	4,443'	Premium Lite II +0.25 pps	350	35%	12.00		3.38
		celloflake + 5 pps gilsonite + 10% gel					
		+ 0.5% extender					
TAIL	5,600'	50/50 Poz/G + 10% salt + 2% gel	1,320	35%	14.30		1.31
		+ 0.1% R-3					

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

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	Survey	s will	be	taken	at 1	,000'	minimum	intervals.
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Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING	ENGINEER:

Nick Spence / Danny Showers / Chad Loesel

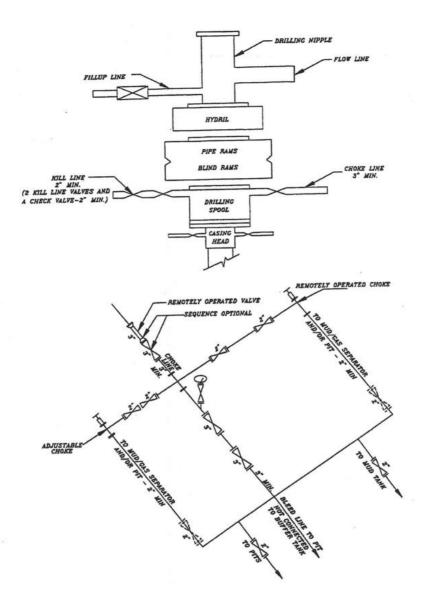
DAIL.	
DATE:	

DRILLING SUPERINTENDENT:

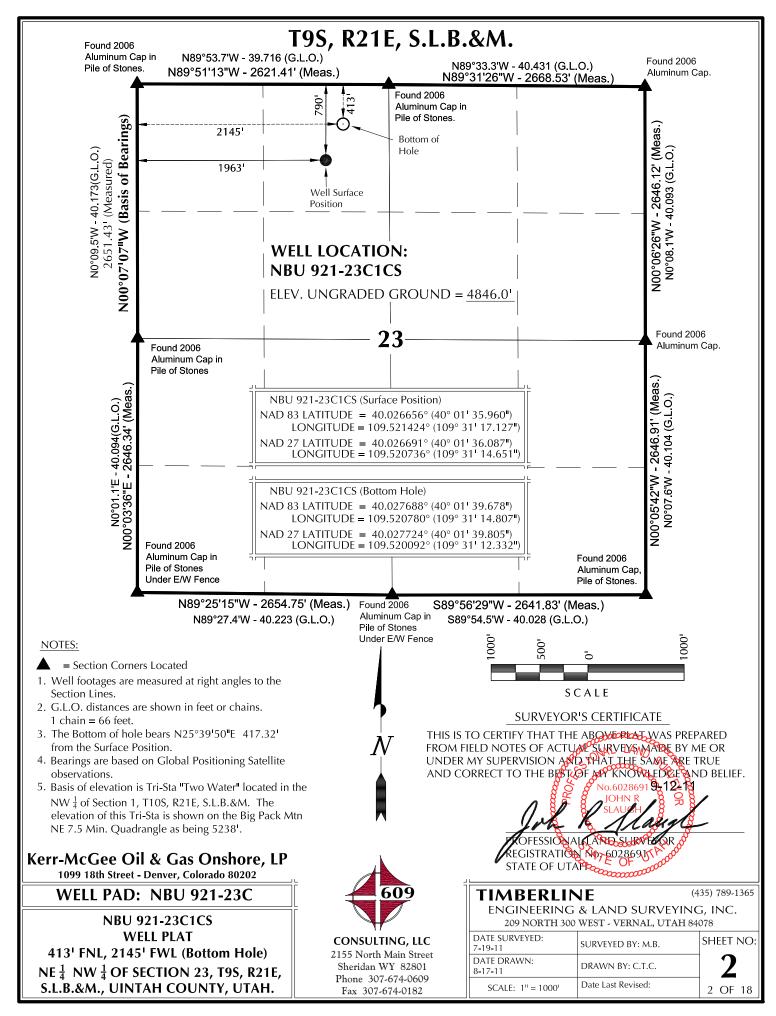
Kenny Gathings / Lovel Young

^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

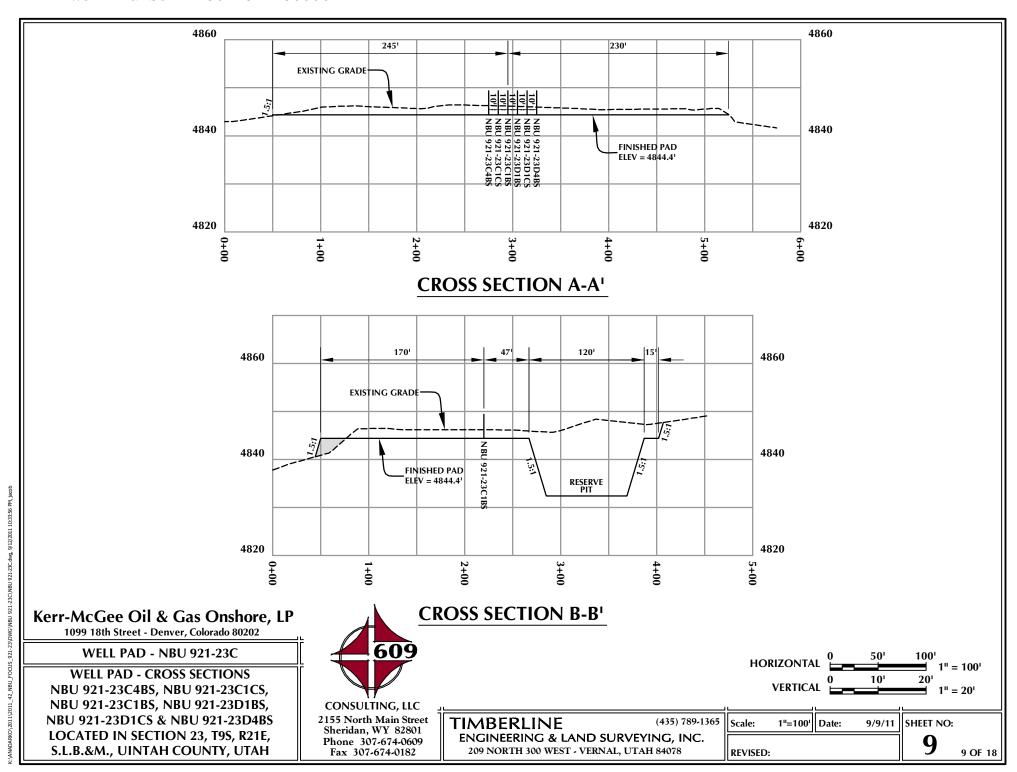
EXHIBIT A NBU 921-23C1CS

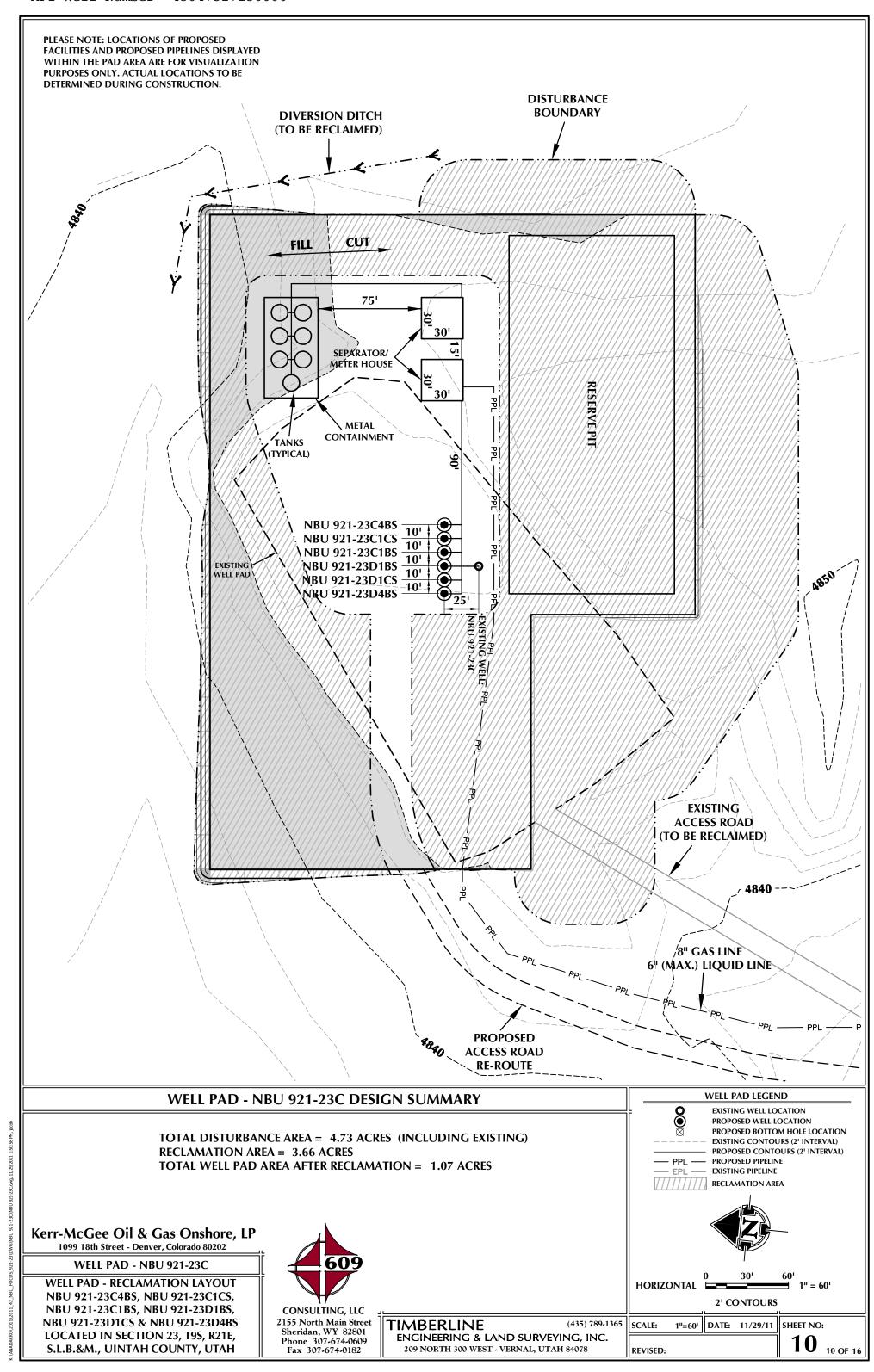


SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK



			SURFACE PO							BC	OTTOM HOLE		
WELL NAME	N/ LATITUDE	AD83 LONGIT	UDE LATIT	NAD27	GITUDE	FOOTAGES	LATIT	NAD	083 LONGITUI)E	NAD LATITUDE	LONGITUDE	FOOTAGES
NBU	40°01'35.970					789' FNL		36.41 <i>7</i> "	109°31'14.7	_			
921-23C4BS	40.026658°	109.52138	39° 40.0266	94° 109.52	0701°	1973' FWL	40.026		109.520777		40.026818°	109.520089°	2145¹ FWL
NBU 921-23C1CS	40°01'35.960 40.026656°	0" 109°31'1 <i>7</i> 109.52142	I		'14.651" 0736°	790' FNL 1963' FWL	40°01'3		109°31'14.8 109.520780°	· .		109°31'12.332" 109.520092°	413' FNL 2145' FWL
NBU	40°01'35.950		7.254" 40°01'3	6.077" 109°31		791' FNL	40°01'4	42.938"	109°31'14.8	19"	40°01'43.065"	109°31'12.343"	
921-23C1BS NBU	40.026653° 40°01'35.94	109.52145				1954' FWL	40.028 40°01'4		109.520783	_	40.028629° 40°01'41.450"	109.520095°	2145' FWL 249' FNL
921-23D1BS NBU	40.026650° 40°01'35.93°	109.52149	95° 40.0266	85° 109.52	0807°	792' FNL 1944' FWL	40.028	145°	109°31'31.8 109.525501°		40.028180°	109.524813°	8231 FWL
921-23D1CS	40.026647°	109.52153	31° 40.0266	83° 109.52	0843°	793' FNL 1934' FWL	40.027	240°	109°31'31.7 109.525498		40.027275°	109°31'29.315" 109.524810°	8231 FWL
NBU 921-23D4BS	40°01'35.92° 40.026645°	109.52156	56° 40.0266	80° 109.52	'15.162" 0878°	794' FNL 1924' FWL	40.026		109°31'31.7 109.525494	٠ ا	40°01'34.919" 40.026366°	109°31'29.303" 109.524806°	910' FNL 823' FWL
NBU 921-23C	40°01'35.695 40.026582°	5" 109°31'1 <i>7</i> 109.52148			'14.874" 0798°	817' FNL 1946' FWL							
		1.03.321.10		TIVE COORD	<u> </u>		Position	to Botto	om Hole				
WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL	NAME	NOR	TH EA	T T	WELL NAM	IE NORTH	EAST
NBU	45.21	171.5	NBU	376.21	180.7	NBU	C1DC	707.	.21 190	.0¹	NBU	545.5	-1121.7'
921-23C4BS WELL NAME	NORTH	EAST	921-23C1CS WELL NAME	NORTH	EAST	921-23	C1R2				921-23D1B	3	
NBU	216.5	-1111.1'	NBU	-113.5 ¹	-1100. ⁵			0	•				
21-23D1CS	0.5		921-23D4BS		1.00.0			366	જે				1
								3.663 47.5	` / _@				
			BEARINGS IS				/ /	(To 801/2 41)	/0/2				
			NW $rac{1}{4}$ OF SEC $^{ au}$. Which is t			5,	$\frac{1}{2} / \frac{1}{2}$	1 4/	7 7.				7
		CLODAL	DOCITIONING		1	132.23°	/_ \\	£/ 25	>				1 7
▼		OBSERV <i>A</i>	ATIONS TO B		07 " W.) e) .						Ņ
Λ.	Top					35	Z.	120					
'V ₍	64%	$tt_{O_{D_{i}}}$,				5.C	₹ <,\	(70 801/E 5.6					
	J. 5 / A	\ '/ <i>L</i> /				7: 25 / 3	¥ /						
	4> 59"1	1/ < 10/2)			تر ا <i>ب</i> رار)						II/U
	AZ 295	V / 10/e)			AZ- 02'(Ba)	, /			_	.194°	, .	M
_ (AZ=295.5	93367°) 			$\begin{array}{c} AZ=15.03583\circ\\ 15^{\circ}02^{\circ}09^{\circ}E\\ \hline (To Bott - 732.) \end{array}$, /		4Z=7	5.2	24194° 177.30	31	M
N70:	AZ 295.	V 10/e 93367° 1 Holel)	` _		$N_{15}^{AZ=15.035}$ $(To Bott)$	/ Com Hole) / (25°30.)		AZ=7	5.2 31"	24194° E - 177.30 E - 1701e)		tom of
(N78°5	(To Bo 64°03'59"N AZ=295. (To Bottom 58'27"W	93367° Hole))			N15 (16)) /		AZ=7 N75°14'	5.2 31" 30tt	24194° E - 177.30 _{Com Hole})	Bot Ho	tom of
N78°±	AZ=295. To Bottom 58'27"W Z=281.02	93367° Hole)) :32, -7,			AZ- 10, NI5°02'(10, B)) / 		N75°14'	5.2 31" 30tt	24194° E <u>- 177</u> .30 _{Om Hole)}	Bot Ho	
Α	Z=281.02	- 1131.9 583°	_, 7'		10' 10' 1	N 10, 10, 10,	/ _		AZ=7 N75°14' (To F	5.2 31" 30tt	24194° E - 177.30 _{Om} Hole)	Bot Ho	
A = 264	Z=281.02	- 1131.9 583°	_, 7'	106.34' 🛠	10' 10' 1	S S S S S S S S S S S S S S S S S S S	/ _		AZ=7 N75°14'' (To F	5.2 31" 30tt	24194° E - 177.30 E - Hole)	Bot Ho	
A 7 - 264	Z=281.02	583°	7, - 1	106.34 [°] 88 [°]	10' 10' 1	S S S S S S S S S S S S S S S S S S S	/ _		AZ=7 N75°14' (To F	5.2 31" 30tt	24194° E - 177.30 E - 170(8) Om Hole)	Bot Ho	
Α	Z=281.02	583°	7, - 1	106.34' 28	3D1CS 3D1BS	23C1BS 10 N15			AZ=7 N75°14' (TO F	5.2 31" 30tt	24194° E - 177.30 E - Mole)	Bot Ho	
A 7 - 264	Z=281.02	583°	739"W - 1 239"W - 1 2=264.1108 5 Bottom H		3D1CS 3D1BS	23C1BS 10 N15			AZ=7 N75°14' (To F	5.2 31"" 30tt	24194° E - 177.30 _{Om} Hole)	Bot Ho	
A = 264	Z=281.02	583°	7, - 1		3D1CS 3D1BS	121X3	7 - 25-67-176		AZ=7 N75°14' (To F	5.2 31"' 30tt	24194° E - 177.30 om Hole)	Bot Ho	
A = 264	Z=281.02	583°	7, - 1		3D1CS 3D1BS	121X3	7 - 25-67-176		AZ=7 N75°14' (TO F	5.2 31"" 30tt	24194° E - 177.30 _{Om} Hole)	Bot Ho	
A = 264	Z=281.02	583°	7, - 1		3D1CS 3D1BS	121X3	7 - 25-67-176		AZ=7 N75°14' (TO F	5.2 31"'' 60tt	24194° E - 177.30 _{Om} Hole)	Bot Ho	
A = 264	Z=281.02	583°	7, - 1		3D1CS 3D1BS	121X3	7 - 25-67-176			5.2 31"'' 50tt	24194° E - 177.30 _{Om} Hole)		
A = 264	Z=281.02	583°	7, - 1		32.0' NBU 921-23D1CS 27.0' NBU 921-23D1BS 25.0' NBU 921-23D1BS	121X3	7 - 25-67-176		N75°14' (TO F		24194° E - 177.30 om Hole)	Bot Ho	
A 7 - 264	Z=281.02	583°	7, - 1		32.0' NBU 921-23D1CS 27.0' NBU 921-23D1BS 25.0' NBU 921-23D1BS	121X3	7 - 25-67-176						
A = 264	Z=281.02	583°	7, - 1		69500° 32.0' NBU 921-23D1CS 7 6 45472° 27.0' NBU 921-23D1BS	ngn: 173% 50.1.23C185 6.14583° 26.9' NBU 921-23C1C5 6.14583° 22.0' NBU 921-23C1C5 6.1778° 32.0' NBU 921-23C4R5	7 - 25-67-176		30.		0		
A = 264	Z=281.02	583°	7, - 1		69500° 32.0' NBU 921-23D1CS 7 6 45472° 27.0' NBU 921-23D1BS	ngn: 173% 50.1.23C185 6.14583° 26.9' NBU 921-23C1C5 6.14583° 22.0' NBU 921-23C1C5 6.1778° 32.0' NBU 921-23C4R5	7 - 25-67-176		30.				
A = 264	Z=281.02	583°	7, - 1		=135.69500° 32.0' NBU 921-23D1CS = 152.45472° 27.0' NBU 921-23D1BS = 152.45472° 25.0' NBU 921-23D1BS	ngn: 173% 50.1.23C185 6.14583° 26.9' NBU 921-23C1C5 6.14583° 22.0' NBU 921-23C1C5 6.1778° 32.0' NBU 921-23C4R5	7 - 25-67-176		30.		0		
A = 264	Z=281.02	583°	7, - 1		=135.69500° 32.0' NBU 921-23D1CS = 152.45472° 27.0' NBU 921-23D1BS = 152.45472° 25.0' NBU 921-23D1BS	ngn: 173% 50.1.23C185 6.14583° 26.9' NBU 921-23C1C5 6.14583° 22.0' NBU 921-23C1C5 6.1778° 32.0' NBU 921-23C4R5	7 - 25-67-176		30.		0		
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A = 264	Z=281.02	583°	7, - 1		=135.69500° 32.0' NBU 921-23D1CS = 152.45472° 27.0' NBU 921-23D1BS = 152.45472° 25.0' NBU 921-23D1BS	ngn: 173% 50.1.23C185 6.14583° 26.9' NBU 921-23C1C5 6.14583° 22.0' NBU 921-23C1C5 6.1778° 32.0' NBU 921-23C4R5	7 - 25-67-176		30.		0		
A 7 - 264	Z=281.02	583°	7, - 1		=135.69500° 32.0' NBU 921-23D1CS = 152.45472° 27.0' NBU 921-23D1BS = 152.45472° 25.0' NBU 921-23D1BS	ngn: 173% 20.15X3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	39.0. NBU 921-23		30.		0		
$AZ = 264.$ $884^{\circ}18^{\circ}$	Z=281.02 30333°	\$84°06' AZ	7' - 1 2'39"W - 1 2'=264.1108 5 Bottom H		135.69500° 32.0' NBU 921-23D1CS 7 6 2 152.45472° 27.0' NBU 921-23D1BS 6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ngn: 173% 20.15X3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 - 25-67-176		30.		0		
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AZ = 264. \$84°18'	Z=281.02 30333°	\$84°06' AZ (TC	7' - 1 2-39"W - 1 2-264.1108 5 Bottom He 5 Bottom He 5 Bottom He 6 Bottom He		=135.69500° 32.0' NBU 921-23D1CS = 152.45472° 27.0' NBU 921-23D1BS = 152.45472° 25.0' NBU 921-23D1BS	ngn: 173% 20.15X3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 - 25-67-176	,09	30.	C A	TO A L E	.09	le
AZ = 264. S84°18' Verr-Mc(1099 18 WEL	Gee Oil 8th Street - D L PAD -	& Gas (S84°06' AZ (TC	Onshore, rado 80202 21-23C		=135.69500° 32.0' NBU 921-23D1CS = 152.45472° 27.0' NBU 921-23D1BS = 152.45472° 25.0' NBU 921-23D1BS	Az. to Exist. W.H.=174.25030 210 MILSIX4 © Az. to Exist. W.H.=196.14583° 26.9' NBU 921-23C1S © Az. to Exist. W.H.=196.14583° 22.0' NBU 921-23C4RS	7 - 25-67-176	.09	NBER ENGINEER	C A	NE G & LAND	-09 	35) 789-1365 G, INC.
AZ = 264. S84°18' WEL WEL	Gee Oil 8th Street - D L PAD -	& Gas (S84°06' AZ (TC) NBU 92 ERFERENCE	Onshore, rado 80202 21-23C		Az. to Exist. W.H.=135.69500° 32.0' NBU 921-23D1CS Az. to Exist. W.H.=152.45472° 27.0' NBU 921-23D1BS	Az. to Exist. W.H.=174.25030 210 MILSIXA (N. 175) Az. to Exist. W.H.=196.14583° 26.9' NBU 921-23C16S Az. to Exist. W.H.=196.14583° 26.9' NBU 921-23C16S Az. to Exist. W.H.=196.14583° 26.9' NBU 921-23C4RS Az. to Exist. W.H.=196.14583° 26.9' NBU 921-23C4R	Az. to Exist. W.H.=224.49444° 39.0' NBU 921-23C37	7.09 TI	MBER NGINEER 209 NORT	C A	NE G & LAND	.09	35) 789-1365 G, INC.
AZ = 264. S84°18' WEL WEL WELLS- NBU	Gee Oil 8th Street - D L PAD - L PAD INT NBU 921-23C1BS	& Gas (S84°06' AZ (TC) RBU 92 ERFERENC C4BS, NBU 5, NBU 921-	Onshore, rado 80202 21-23C CE PLAT 921-23C1CS, 23D1BS,		Az. to Exist. W.H.=152.45472° 27.0' NBU 921-23D16S	Az. to Exist. W.H.=174.25030 2018	Az. to Exist. W.H.=224.49444° 39.0' NBU 921-23C37 Az. to Exist. W.H.=224.49444° 39.0'	7.09 TI	MBER NGINEER 209 NORT	C A	NE G & LAND	09 (4 SURVEYINC NAL, UTAH 84	35) 789-1365 G, INC.
AZ = 264. S84°18' WEL WELLS - NBU NBU S	Gee Oil 8th Street - D L PAD - L PAD INT NBU 921-23C1BS 921-23C1BS	& Gas (S84°06' AZ (TC) RBU 9: ERFERENC C4BS, NBU 921- & NBU 921- & NBU 921-	Onshore, rado 80202 21-23C CE PLAT 921-23C1CS, 23D1BS, 1-23D4BS,		Az. to Exist. W.H.=135.69500° 32.0' NBU 921-23D1CS Az. to Exist. W.H.=152.45472° 27.0' NBU 921-23D1BS	Az. to Exist. W.H.=174.25030 210 MILSIXA (N. 175) Az. to Exist. W.H.=196.14583° 26.9' NBU 921-23C16S Az. to Exist. W.H.=196.14583° 26.9' NBU 921-23C16S Az. to Exist. W.H.=196.14583° 26.9' NBU 921-23C4RS Az. to Exist. W.H.=196.14583° 26.9' NBU 921-23C4R	Az. to Exist. W.H.=224.49444° 39.0' NBU 921-23C32	TI E DATE 7-19- DATE	MBER NGINEER 209 NORT E SURVEYED: 11 E DRAWN:	C A	NE G & LAND:	GY: M.B.	35) 789-1365 G, INC.
AZ = 264. S84°18' WEL WELLS - I NBU NBU LOCA	Gee Oil 8th Street - D L PAD - L PAD INT NBU 921-23C1BS	& Gas (S84°06' AZ (TC) ERFERENC (C4BS, NBU 921- & NBU 921- & NBU 921- & NBU 921- & NBU 921- TION 23, TS	Onshore, rado 80202 21-23C CE PLAT 921-23C1CS, 23D1BS, 1-23D4BS, 95, R21E,		Az. to Exist. W.H.=135.69500° 32.0' NBU 921-23D1CS Az. to Exist. W.H.=135.45472° 27.0' NBU 921-23D1BS Az. to Exist. W.H.=152.45472° 27.0' NBU 921-23D1BS	THE MAIL TO EXIST. W.H.=174.23030 213M DNILSIXA OF THE WING WITH THAN DNILSIXA OF THE WING WITH THAN DNILSIXA OF THE WITH THAN DNILS OF THE WITH THAN DNILSIXA OF THE WITH THAN DNILSIXA OF THE WITH THAN DNILSIXA OF THE WITH THE WITH THAN DNILSIXA OF THE WITH T	Az. to Exist. W.H.=224.49444° 39.0' NBU 921-23	DATE 7-19- DATE 8-17-	MBER NGINEER 209 NORT E SURVEYED: 11 E DRAWN:	C A	NE G & LAND: 00 WEST - VER SURVEYED B	(4 SURVEYINC INAL, UTAH 84 SY: M.B. C.T.C.	35) 789-1365 G, INC.





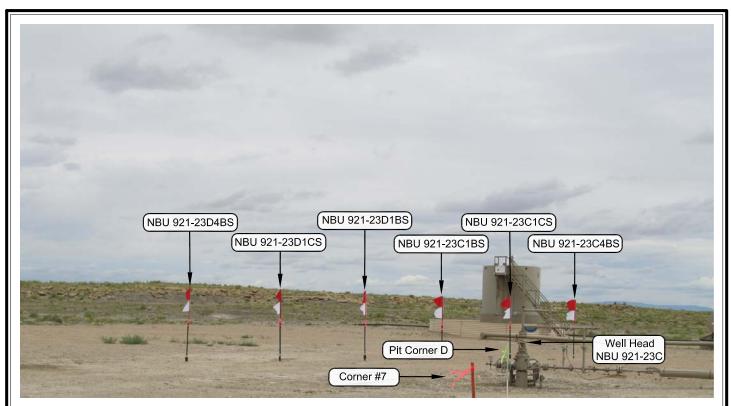


PHOTO VIEW: FROM CORNER #7 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHEASTERLY

Kerr-McGee Oil & Gas Onshore, LP

1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-23C

LOCATION PHOTOS NBU 921-23C4BS, NBU 921-23C1CS, NBU 921-23C1BS, NBU 921-23D1BS, NBU 921-23D1CS, & NBU 921-23D4BS, LOCATED IN SECTION 23, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH.



CONSULTING, LLC

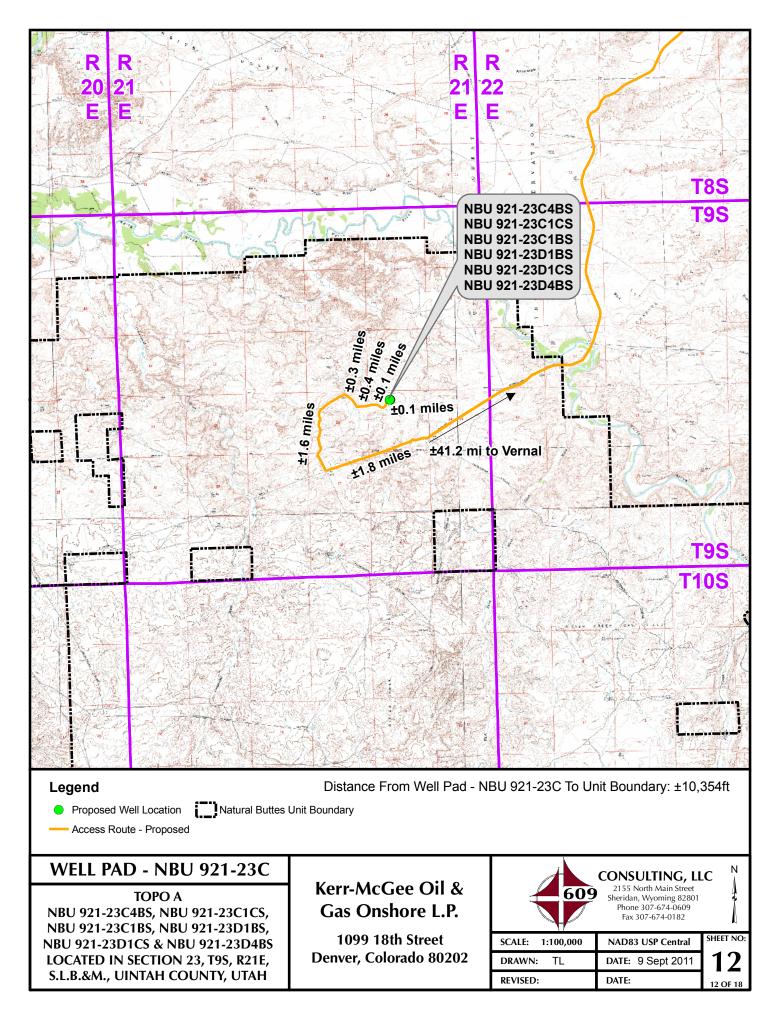
2155 North Main Street Sheridan WY 82801 Phone 307-674-0609 Fax 307-674-0182

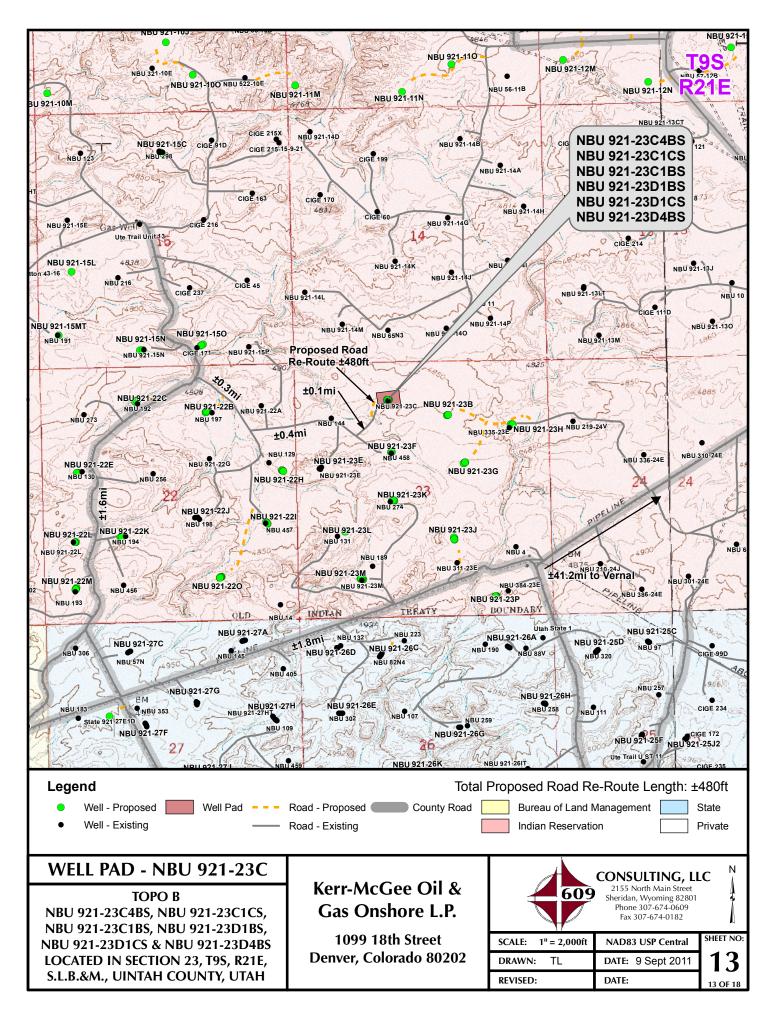
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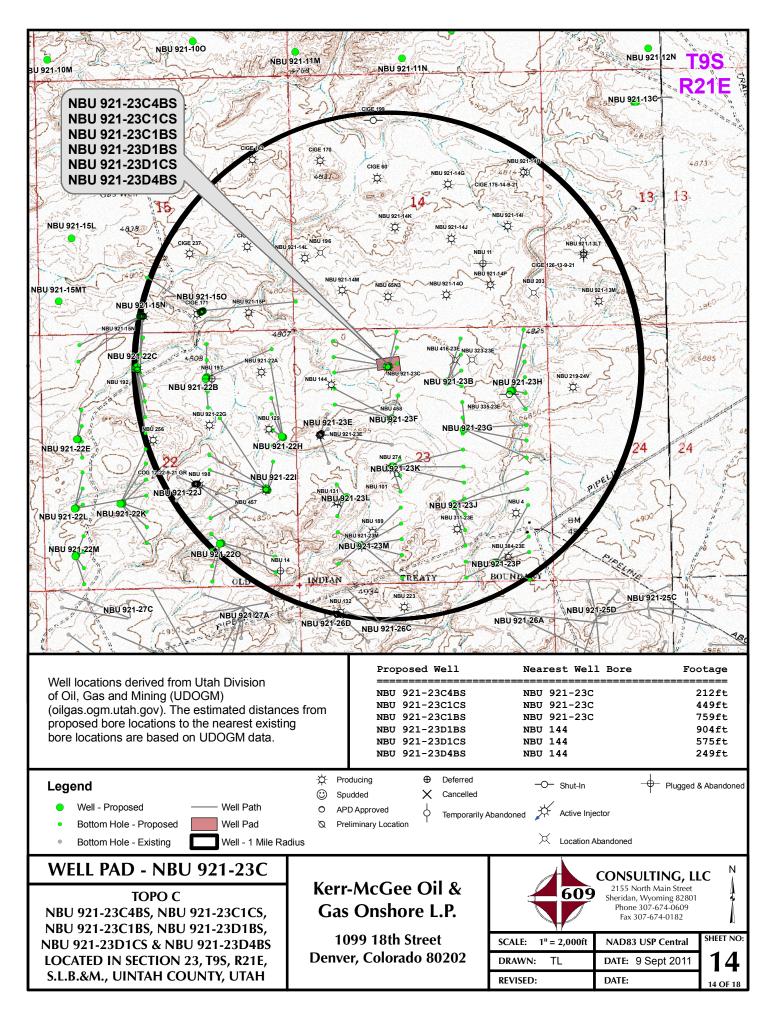
(435) 789-1365

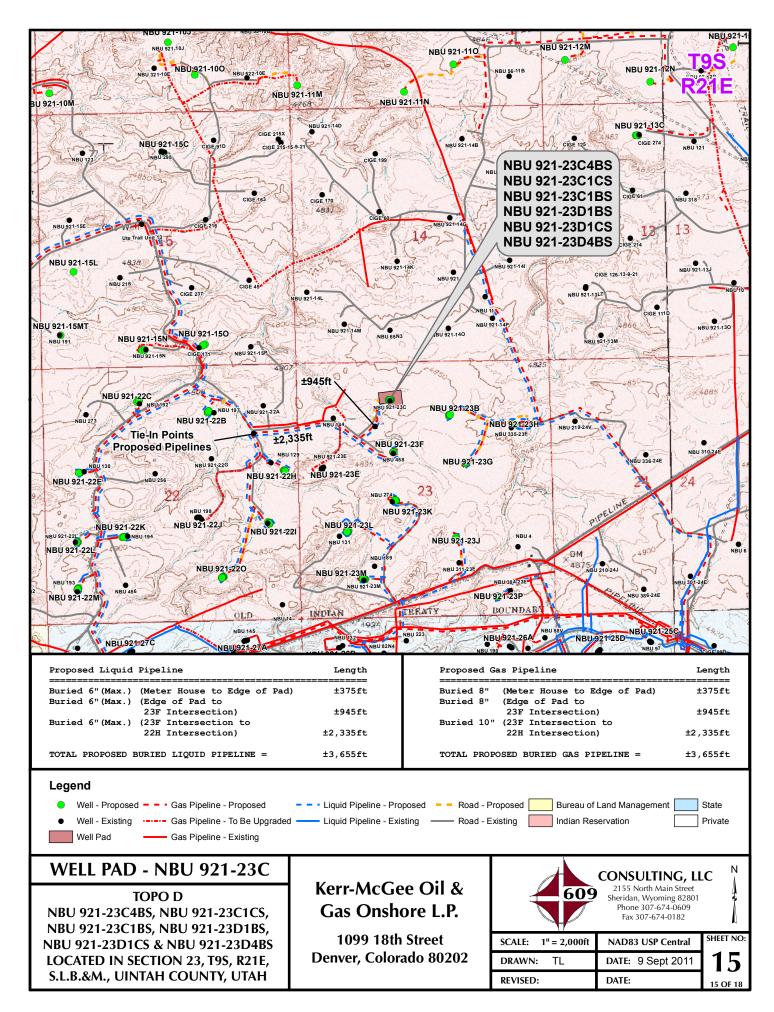
ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

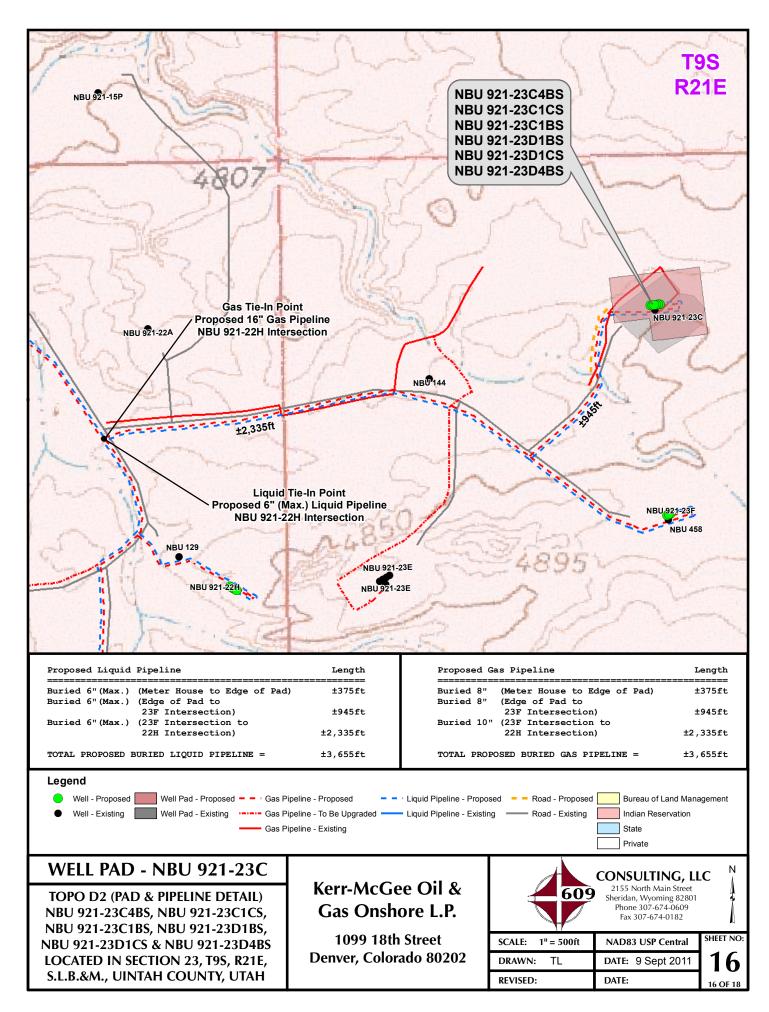
DATE PHOTOS TAKEN: 7-19-11	PHOTOS TAKEN BY: M.B.	SHEET NO:
DATE DRAWN: 8-17-11	DRAWN BY: C.T.C.	11
Date Last Revised:		11 OF 18

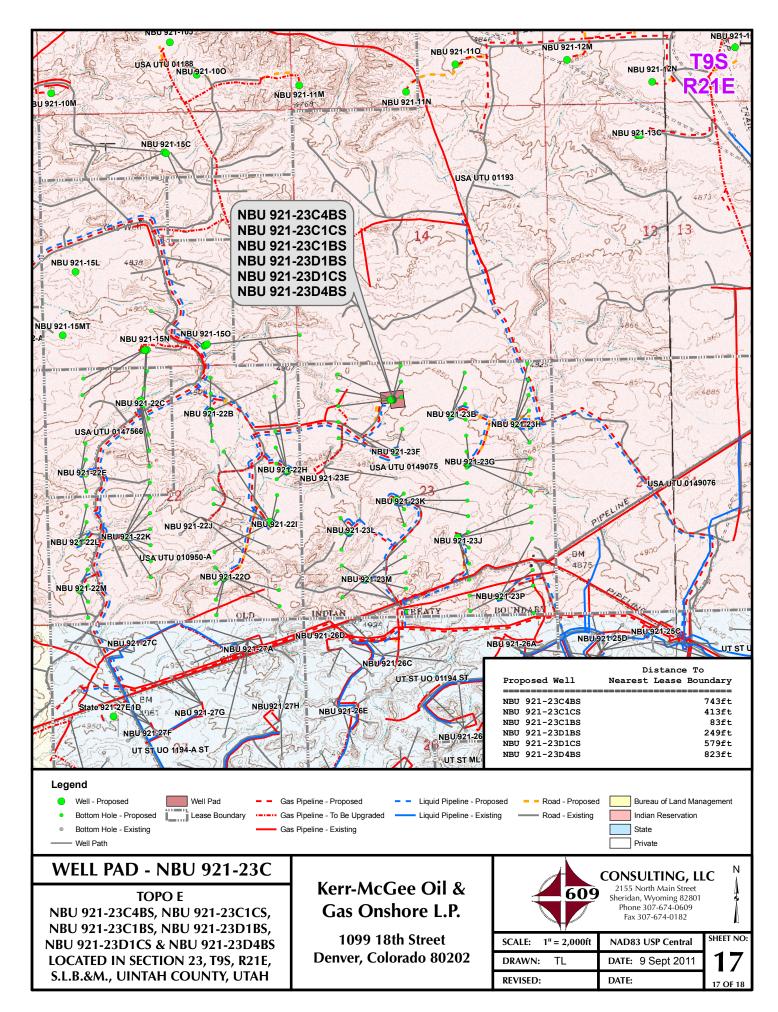












Kerr-McGee Oil & Gas Onshore, LP WELL PAD – NBU 921-23C WELLS – NBU 921-23C4BS, NBU 921-23C1CS, NBU 921-23C1BS, NBU 921-23D1BS, NBU 921-23D1CS & NBU 921-23D4BS Section 23, T9S, R21E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East street in Vernal, Utah, proceed in an easterly then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 17.7 miles to a Class D County Road to the southwest. Exit right and proceed in a southwesterly direction along the Class D County Road approximately 1.8 miles to a second Class D County Road approximately 1.6 miles to a service road to the southeast. Exit right and proceed in a southeasterly direction along the service road approximately 0.3 miles to a second service road to the east. Exit left and proceed in an easterly, then southeasterly direction along the second service road approximately 0.4 miles to a third service road to the northeast. Exit left and proceed in a northeasterly direction along the third service road approximately 0.1 miles to the proposed access road. Follow road flags in a northerly direction approximately 480 feet the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 45.5 miles in a southerly direction.

SHEET 18 OF 18

API Well Number: 43047 520 Ject OUTAH - UTM (feet), NAD27, Zone 12N

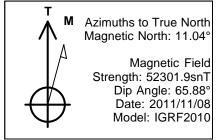
Site: NBU 921-23C PAD Well: NBU 921-23C1CS

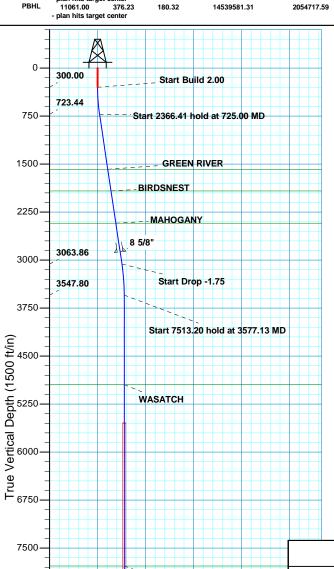
Wellbore: OH

Design: PLAN #1 PRELIMINARY



WELL DETAILS: NBU 921-23C1CS GL 4844 & KB 4 @ 4848.00ft (ASSUMED) +N/-S 0.00 Northing Easting 2054543.55 Longitude 109° 31' 14.650 W 14539202.14 40° 1' 36.088 N DESIGN TARGET DETAILS TVD 10461.00 +N/-S 376.23 Northing 14539581.31 Easting 2054717.59 Latitude 39.806 N Longitude 109° 31' 12.331 W +E/-W Shape 180.32 Circle (Radius: 25.00) plan hits target center PBHL 376.23 180.32 14539581.31 2054717.59 40° 1' 39.806 N 109° 31' 12.331 W Circle (Radius: 100.00 - plan hits target center





MESAVERDE

CASTLEGATE

BLACKHAWK

TD at 11090.33

1500

Vertical Section at 25.61° (1500 ft/in)

750

BH_NBU 921-23C1CS

2250

8250

9000

9750

10500

11250

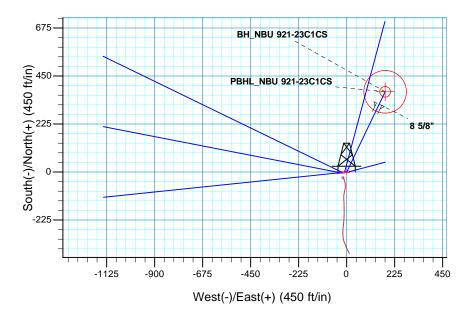
-750

SEGO

11061.00

Scientific Drilling

Rocky Mountain Operations



0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 300.00 8.50 8.50 25.61 25.61 25.61 723.44 25.61 3063.86 0.00 3547.80 0.0011061.00 28.38 343.80 13.60 164.78 2.00 25.61 0.00 180.00 31.47 381.25 417.21 725.00 3091.41 3577.13 0.00 376.23 180.32 1.75 PBHL_NBU 921-23C1CS FORMATION TOP DETAILS Formation GREEN RIVER BIRDSNEST **TVDPath** PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N 1581.00 1920.00 1592.08 1934.85 Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SECTION 23 T9D R21E 2425.00 4948.00 2445.45 4977.33 MAHOGANY MESAVERDE SEGO CASTLEGATE 7781.00 10014.00 7810.33 10043.33 10070.00 10099.33 System Datum: Mean Sea Level CASING DETAILS

2900.45

Name Size 8 5/8" 8.625

TVD 2875.00 SECTION DETAILS

Plan: PLAN #1 PRELIMINARY (NBU 921-23C1CS/OH)

RECEI

Created By: RobertScott Date: 8:10, November 09 2011



US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N NBU 921-23C PAD NBU 921-23C1CS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

08 November, 2011





SDIPlanning Report



Database: EDM5000-RobertS-Local

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 921-23C PAD

 Well:
 NBU 921-23C1CS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 921-23C1CS

GL 4844 & KB 4 @ 4848.00ft (ASSUMED) GL 4844 & KB 4 @ 4848.00ft (ASSUMED)

True

Minimum Curvature

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System: Universal Transverse Mercator (US Survey Feet)

Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: Zone 12N (114 W to 108 W)

Mean Sea Level

Site NBU 921-23C PAD, SECTION 23 T9D R21E

Northing: 14,539,200.89 usft Site Position: Latitude: 40° 1' 36.077 N From: Lat/Long Easting: 2,054,533.48 usft Longitude: 109° 31' 14.779 W **Position Uncertainty:** 0.00 ft Slot Radius: **Grid Convergence:** 0.95 13.200 in

System Datum:

Well NBU 921-23C1CS, 790 FNL 1963 FWL

 Well Position
 +N/-S
 1.09 ft
 Northing:
 14,539,202.15 usft
 Latitude:
 40° 1' 36.088 N

 +E/-W
 10.08 ft
 Easting:
 2,054,543.54 usft
 Longitude:
 109° 31' 14.650 W

Position Uncertainty 0.00 ft Wellhead Elevation: Ground Level: 4,844.00 ft

Wellbore ОН Magnetics **Model Name** Sample Date Declination **Dip Angle** Field Strength (nT) (°) (°) IGRF2010 2011/11/08 11.04 65.88 52.302

PLAN #1 PRELIMINARY Design Audit Notes: Version: Phase: PLAN Tie On Depth: 0.00 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 25.61

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
725.00	8.50	25.61	723.44	28.38	13.60	2.00	2.00	0.00	25.61	
3,091.41	8.50	25.61	3,063.86	343.80	164.78	0.00	0.00	0.00	0.00	
3,577.13	0.00	0.00	3,547.80	376.23	180.32	1.75	-1.75	0.00	180.00	
11,090.33	0.00	0.00	11,061.00	376.23	180.32	0.00	0.00	0.00	0.00 PE	HL_NBU 921-230



SDIPlanning Report



Database: EDM5000-RobertS-Local Company: US ROCKIES REGION P

: US ROCKIES REGION PLANNING

 Project:
 UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 921-23C PAD

Well: NBU 921-23C1CS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 921-23C1CS

GL 4844 & KB 4 @ 4848.00ft (ASSUMED) GL 4844 & KB 4 @ 4848.00ft (ASSUMED)

True

,···									
ned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build	2.00								
400.00	2.00	25.61	399.98	1.57	0.75	1.75	2.00	2.00	0.00
500.00	4.00	25.61	499.84	6.29	3.02	6.98	2.00	2.00	0.00
600.00	6.00	25.61	599.45	14.15	6.78	15.69	2.00	2.00	0.00
	8.00							2.00	0.00
700.00		25.61	698.70	25.14	12.05	27.88	2.00		
725.00	8.50	25.61	723.44	28.38	13.60	31.47	2.00	2.00	0.00
	41 hold at 725.00								
800.00	8.50	25.61	797.62	38.37	18.39	42.55	0.00	0.00	0.00
900.00	8.50	25.61	896.52	51.70	24.78	57.33	0.00	0.00	0.00
1,000.00	8.50	25.61	995.42	65.03	31.17	72.11	0.00	0.00	0.00
1,100.00	8.50	25.61	1,094.32	78.36	37.56	86.90	0.00	0.00	0.00
1,200.00	8.50	25.61	1,193.23	91.69	43.95	101.68	0.00	0.00	0.00
1,300.00	8.50	25.61	1,193.23	105.02	50.33	116.46	0.00	0.00	0.00
1,400.00	8.50	25.61	1,391.03	118.35	56.72	131.24	0.00	0.00	0.00
1,500.00	8.50	25.61	1,489.93	131.68	63.11	146.02	0.00	0.00	0.00
1,592.08	8.50	25.61	1,581.00	143.95	68.99	159.63	0.00	0.00	0.00
GREEN RIV	/ER								
1,600.00	8.50	25.61	1,588.83	145.01	69.50	160.80	0.00	0.00	0.00
1,700.00	8.50	25.61	1,687.73	158.33	75.89	175.58	0.00	0.00	0.00
								0.00	0.00
1,800.00	8.50	25.61	1,786.63	171.66	82.28	190.36	0.00	0.00	0.00
1,900.00	8.50	25.61	1,885.54	184.99	88.66	205.14	0.00	0.00	0.00
1,934.85	8.50	25.61	1,920.00	189.64	90.89	210.29	0.00	0.00	0.00
BIRDSNES									
2,000.00	8.50	25.61	1,984.44	198.32	95.05	219.92	0.00	0.00	0.00
2,100.00	8.50	25.61	2,083.34	211.65	101.44	234.71	0.00	0.00	0.00
2,200.00	8.50	25.61	2,182.24	224.98	107.83	249.49	0.00	0.00	0.00
2,300.00	8.50	25.61	2,281.14	238.31	114.22	264.27	0.00	0.00	0.00
	8.50		2,380.04		120.61	279.05	0.00	0.00	0.00
2,400.00 2,445.45		25.61		251.64	123.51		0.00	0.00	0.00
	8.50	25.61	2,425.00	257.70	123.31	285.77	0.00	0.00	0.00
MAHOGAN		OF 64	2 479 05	264.07	107.00	202.02	0.00	0.00	0.00
2,500.00	8.50	25.61	2,478.95	264.97	127.00	293.83	0.00	0.00	0.00
2,600.00	8.50	25.61	2,577.85	278.30	133.38	308.61	0.00	0.00	0.00
2,700.00	8.50	25.61	2,676.75	291.63	139.77	323.39	0.00	0.00	0.00
2,800.00	8.50	25.61	2,775.65	304.95	146.16	338.17	0.00	0.00	0.00
2,900.00	8.50	25.61	2,874.55	318.28	152.55	352.95	0.00	0.00	0.00
2,900.45	8.50	25.61	2,875.00	318.34	152.58	353.02	0.00	0.00	0.00
8 5/8"									
3,000.00	8.50	25.61	2,973.45	331.61	158.94	367.73	0.00	0.00	0.00
3,091.41	8.50	25.61	3,063.86	343.80	164.78	381.25	0.00	0.00	0.00
Start Drop									
3,100.00	8.35	25.61	3,072.36	344.93	165.32	382.50	1.75	-1.75	0.00
3,200.00	6.60	25.61	3,171.50	356.66	170.94	395.51	1.75	-1.75	0.00
3,300.00	4.85	25.61	3,271.00	365.66	175.25	405.49	1.75	-1.75	0.00
3,400.00	3.10	25.61	3,370.76	371.91	178.25	412.42	1.75	-1.75	0.00
3,500.00	1.35	25.61	3,470.68	375.41	179.93	416.30	1.75	-1.75	0.00
3,577.13	0.00	0.00	3,547.80	376.23	180.32	417.21	1.75	-1.75	0.00
	20 hold at 3577.13		0 === ==	077	100.00				
3,600.00	0.00	0.00	3,570.67	376.23	180.32	417.21	0.00	0.00	0.00
3,700.00	0.00	0.00	3,670.67	376.23	180.32	417.21	0.00	0.00	0.00



SDIPlanning Report



Database: EDM5000-RobertS-Local

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 921-23C PAD

 Well:
 NBU 921-23C1CS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 921-23C1CS

GL 4844 & KB 4 @ 4848.00ft (ASSUMED) GL 4844 & KB 4 @ 4848.00ft (ASSUMED)

True

Design:	FLAN#IFRE	Enviro de la							
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,800.00	0.00	0.00	3,770.67	376.23	180.32	417.21	0.00	0.00	0.00
3,900.00	0.00	0.00	3,870.67	376.23	180.32	417.21	0.00	0.00	0.00
4,000.00	0.00	0.00	3,970.67	376.23	180.32	417.21	0.00	0.00	0.00
4,100.00	0.00	0.00	4,070.67	376.23	180.32	417.21	0.00	0.00	0.00
4,200.00	0.00	0.00	4,170.67	376.23	180.32	417.21	0.00	0.00	0.00
4,300.00	0.00	0.00	4,270.67	376.23	180.32	417.21	0.00	0.00	0.00
4,400.00	0.00	0.00	4,370.67	376.23	180.32	417.21	0.00	0.00	0.00
4,500.00	0.00	0.00	4,470.67	376.23	180.32	417.21	0.00	0.00	0.00
4,600.00	0.00	0.00	4,570.67	376.23	180.32	417.21	0.00	0.00	0.00
4,700.00	0.00	0.00	4,670.67	376.23	180.32	417.21	0.00	0.00	0.00
4,800.00	0.00	0.00	4,770.67	376.23	180.32	417.21	0.00	0.00	0.00
4,900.00	0.00	0.00	4,870.67	376.23	180.32	417.21	0.00	0.00	0.00
4,977.33	0.00	0.00	4,948.00	376.23	180.32	417.21	0.00	0.00	0.00
WASATCH 5,000.00 5,100.00	0.00	0.00	4,970.67	376.23	180.32	417.21	0.00	0.00	0.00
	0.00	0.00	5,070.67	376.23	180.32	417.21	0.00	0.00	0.00
5,200.00	0.00	0.00	5,170.67	376.23	180.32	417.21	0.00	0.00	0.00
5,300.00	0.00	0.00	5,270.67	376.23	180.32	417.21	0.00	0.00	0.00
5,400.00	0.00	0.00	5,370.67	376.23	180.32	417.21	0.00	0.00	0.00
5,500.00	0.00	0.00	5,470.67	376.23	180.32	417.21	0.00	0.00	0.00
5,600.00	0.00	0.00	5,570.67	376.23	180.32	417.21	0.00	0.00	0.00
5,700.00	0.00	0.00	5,670.67	376.23	180.32	417.21	0.00	0.00	0.00
5,800.00	0.00	0.00	5,770.67	376.23	180.32	417.21	0.00	0.00	0.00
5,900.00	0.00	0.00	5,870.67	376.23	180.32	417.21	0.00	0.00	0.00
6,000.00	0.00	0.00	5,970.67	376.23	180.32	417.21	0.00	0.00	0.00
6,100.00	0.00	0.00	6,070.67	376.23	180.32	417.21	0.00	0.00	0.00
6,200.00	0.00	0.00	6,170.67	376.23	180.32	417.21	0.00	0.00	0.00
6,300.00	0.00	0.00	6,270.67	376.23	180.32	417.21	0.00	0.00	0.00
6,400.00	0.00	0.00	6,370.67	376.23	180.32	417.21	0.00	0.00	0.00
6,500.00	0.00	0.00	6,470.67	376.23	180.32	417.21	0.00	0.00	0.00
6,600.00 6,700.00	0.00	0.00	6,570.67 6,670.67	376.23 376.23	180.32 180.32	417.21 417.21	0.00 0.00	0.00 0.00	0.00 0.00
6,800.00	0.00	0.00	6,770.67	376.23	180.32	417.21	0.00	0.00	0.00
6,900.00	0.00	0.00	6,870.67	376.23	180.32	417.21	0.00	0.00	0.00
7,000.00	0.00	0.00	6,970.67	376.23	180.32	417.21	0.00	0.00	0.00
7,100.00	0.00	0.00	7,070.67	376.23	180.32	417.21	0.00	0.00	0.00
7,200.00	0.00	0.00	7,170.67	376.23	180.32	417.21	0.00	0.00	0.00
7,300.00	0.00	0.00	7,270.67	376.23	180.32	417.21	0.00	0.00	0.00
7,400.00	0.00	0.00	7,370.67	376.23	180.32	417.21	0.00	0.00	0.00
7,500.00	0.00	0.00	7,470.67	376.23	180.32	417.21	0.00	0.00	0.00
7,600.00	0.00	0.00	7,570.67	376.23	180.32	417.21	0.00	0.00	0.00
7,700.00	0.00	0.00	7,670.67	376.23	180.32	417.21	0.00	0.00	0.00
7,800.00	0.00	0.00	7,770.67	376.23	180.32	417.21	0.00	0.00	0.00
7,810.33	0.00	0.00	7,781.00	376.23	180.32	417.21	0.00	0.00	0.00
7,900.00	0.00	0.00	7,870.67	376.23	180.32	417.21	0.00	0.00	0.00
8,000.00	0.00	0.00	7,970.67	376.23	180.32	417.21	0.00	0.00	0.00
8,100.00	0.00	0.00	8,070.67	376.23	180.32	417.21	0.00	0.00	0.00
8,200.00	0.00	0.00	8,170.67	376.23	180.32	417.21	0.00	0.00	0.00
8,300.00	0.00	0.00	8,270.67	376.23	180.32	417.21	0.00	0.00	0.00
8,400.00	0.00	0.00	8,370.67	376.23	180.32	417.21	0.00	0.00	0.00
8,500.00	0.00	0.00	8,470.67	376.23	180.32	417.21	0.00	0.00	0.00
8,600.00	0.00	0.00	8,570.67	376.23	180.32	417.21	0.00	0.00	0.00
8,700.00	0.00	0.00	8,670.67	376.23	180.32	417.21	0.00	0.00	0.00



SDI Planning Report



Database: Company: Project: EDM5000-RobertS-Local

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 921-23C PAD

 Well:
 NBU 921-23C1CS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 921-23C1CS

GL 4844 & KB 4 @ 4848.00ft (ASSUMED) GL 4844 & KB 4 @ 4848.00ft (ASSUMED)

True

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,800.00	0.00	0.00	8,770.67	376.23	180.32	417.21	0.00	0.00	0.00
8,900.00	0.00	0.00	8,870.67	376.23	180.32	417.21	0.00	0.00	0.00
9,000.00	0.00	0.00	8,970.67	376.23	180.32	417.21	0.00	0.00	0.00
9,100.00	0.00	0.00	9,070.67	376.23	180.32	417.21	0.00	0.00	0.00
9,200.00	0.00	0.00	9,170.67	376.23	180.32	417.21	0.00	0.00	0.00
9,300.00	0.00	0.00	9,270.67	376.23	180.32	417.21	0.00	0.00	0.00
9,400.00	0.00	0.00	9,370.67	376.23	180.32	417.21	0.00	0.00	0.00
9,500.00	0.00	0.00	9,470.67	376.23	180.32	417.21	0.00	0.00	0.00
9,600.00	0.00	0.00	9,570.67	376.23	180.32	417.21	0.00	0.00	0.00
9,700.00	0.00	0.00	9,670.67	376.23	180.32	417.21	0.00	0.00	0.00
9,800.00	0.00	0.00	9,770.67	376.23	180.32	417.21	0.00	0.00	0.00
9,900.00	0.00	0.00	9,870.67	376.23	180.32	417.21	0.00	0.00	0.00
10,000.00	0.00	0.00	9,970.67	376.23	180.32	417.21	0.00	0.00	0.00
10,043.33	0.00	0.00	10,014.00	376.23	180.32	417.21	0.00	0.00	0.00
SEGO									
10,099.33	0.00	0.00	10,070.00	376.23	180.32	417.21	0.00	0.00	0.00
CASTLEGAT									
10,100.00	0.00	0.00	10,070.67	376.23	180.32	417.21	0.00	0.00	0.00
10,200.00	0.00	0.00	10,170.67	376.23	180.32	417.21	0.00	0.00	0.00
10,300.00	0.00	0.00	10,270.67	376.23	180.32	417.21	0.00	0.00	0.00
10,400.00	0.00	0.00	10,370.67	376.23	180.32	417.21	0.00	0.00	0.00
10,490.33	0.00	0.00	10,461.00	376.23	180.32	417.21	0.00	0.00	0.00
	K - BH_NBU 921								
10,500.00	0.00	0.00	10,470.67	376.23	180.32	417.21	0.00	0.00	0.00
10,600.00	0.00	0.00	10,570.67	376.23	180.32	417.21	0.00	0.00	0.00
10,700.00	0.00	0.00	10,670.67	376.23	180.32	417.21	0.00	0.00	0.00
10,800.00	0.00	0.00	10,770.67	376.23	180.32	417.21	0.00	0.00	0.00
10,900.00	0.00	0.00	10,870.67	376.23	180.32	417.21	0.00	0.00	0.00
11,000.00	0.00	0.00	10,970.67	376.23	180.32	417.21	0.00	0.00	0.00
11,090.33	0.00	0.00	11,061.00	376.23	180.32	417.21	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BH_NBU 921-23C1CS - plan hits target cent - Circle (radius 25.00		0.00	10,461.00	376.23	180.32	14,539,581.32	2,054,717.59	40° 1' 39.806 N	109° 31' 12.331 W
PBHL_NBU 921-23C1C - plan hits target cent - Circle (radius 100.0		0.00	11,061.00	376.23	180.32	14,539,581.32	2,054,717.59	40° 1' 39.806 N	109° 31' 12.331 W

Casing Points					
	Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
	(ft)	(ft)	Name	(in)	(in)
	2,900.45	2,875.00 8 5	•	8.625	11.000



SDIPlanning Report



Database: Company:

Project:

EDM5000-RobertS-Local

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 921-23C PAD

 Well:
 NBU 921-23C1CS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 921-23C1CS

GL 4844 & KB 4 @ 4848.00ft (ASSUMED) GL 4844 & KB 4 @ 4848.00ft (ASSUMED)

True

ormations							
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,592.08	1,577.00	GREEN RIVER				
	1,934.85	1,916.00	BIRDSNEST				
	2,445.45	2,421.00	MAHOGANY				
	4,977.33	4,944.00	WASATCH				
	7,810.33	7,777.00	MESAVERDE				
	10,043.33	10,010.00	SEGO				
	10,099.33	10,066.00	CASTLEGATE				
	10,490.33	10,457.00	BLACKHAWK				

Plan Annotations				
Measured	Vertical	Local Coor	dinates	
Depth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
725.00	723.44	28.38	13.60	Start 2366.41 hold at 725.00 MD
3,091.41	3,063.86	343.80	164.78	Start Drop -1.75
3,577.13	3,547.80	376.23	180.32	Start 7513.20 hold at 3577.13 MD
11,090.33	11,061.00	376.23	180.32	TD at 11090.33

NBU 921-23C1BS/921-23C1CS/921-23C4BS/921-23D1BS/921-23D1CS/921-23D4BS Kerr-McGee Oil Gas Onshore, L.P.

NBU 921-23C Pad Surface Use Plan of Operations 1 of 11

Kerr-McGee Oil & Gas Onshore, L.P.

NBU 921-23C Pad

<u>API #</u>	ı	NBU 921-23C1BS		
	Surface:	791 FNL / 1954 FWL	NENW	Lot
	BHL:	83 FNL / 2145 FWL	NENW	Lot
API#	ı	NBU 921-23C1CS		
	Surface:	790 FNL / 1963 FWL	NENW	Lot
	BHL:	413 FNL / 2145 FWL	NENW	Lot
API#	ı	NBU 921-23C4BS		
	Surface:	789 FNL / 1973 FWL	NENW	Lot
	BHL:	743 FNL / 2145 FWL	NENW	Lot
		UDU 004 00D 4D0		
<u>API #</u>	<u>_l</u>	NBU 921-23D1BS		
<u>API #</u>		792 FNL / 1944 FWL	NENW	Lot
<u>API #</u>			NENW NWNW	Lot Lot
<u>API #</u>	Surface: BHL:	792 FNL / 1944 FWL		
	Surface: BHL:	792 FNL / 1944 FWL 249 FNL / 823 FWL NBU 921-23D1CS		
	Surface: BHL:	792 FNL / 1944 FWL 249 FNL / 823 FWL NBU 921-23D1CS	NWNW	Lot
	Surface: BHL: Surface: BHL:	792 FNL / 1944 FWL 249 FNL / 823 FWL NBU 921-23D1CS 793 FNL / 1934 FWL	NWNW	Lot
<u>API #</u>	Surface: BHL: Surface: BHL:	792 FNL / 1944 FWL 249 FNL / 823 FWL NBU 921-23D1CS 793 FNL / 1934 FWL 579 FNL / 823 FWL	NWNW	Lot

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

An on-site meeting was held on October 3-4, 2011. Present were:

- Bucky Secakuku (10/4/2011 only) BIA;
- · LeAllen Blackhair, Rainey Longhair Ute Indian Tribe;
- · Kelly Jo Jackson Montgomery Archeological Consultants Inc.;
- Scott Carson Smiling Lake Consulting;
- · John Slaugh, Mitch Batty Timberline Engineering & Land Surveying, Inc.;
- · Laura Abrams, Charles Chase, Raleen White, Doyle Holmes, Lovel Young, Sheila Wopsock Kerr-McGee

A. Existing Roads:

Existing roads consist of county and improved/unimproved access roads (two-tracks). In accordance with Onshore Order #1, Kerr-McGee will, in accordance with BMPs, improve or maintain existing roads in a condition that is the same as or better than before operations began. New or reconstructed proposed access roads are discussed in Section B.

The existing roads will be maintained in a safe and usable condition. Maintenance for existing roads will continue until final abandonment and reclamation of well pads and/or other facilities, as applicable. Road maintenance will include, but is not limited to, blading, ditching, and/or culvert installation and cleanout. To ensure safe operating conditions, gravel surfacing will be performed where excessive rutting or erosion may occur. Dust control will be performed as necessary to ensure safe operating conditions.

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Roads, gathering lines and electrical distribution lines will occupy common disturbance corridors where possible. Where available, roadways will be used as the staging area and working space for installation of gathering lines. All disturbances located in the same corridor will overlap each other to the maximum extent possible, while maintaining safe and sound construction and installation practices. Unless otherwise approved or requested in site specific documents, in no case will the maximum disturbance widths of the access road and utility corridors exceed the widths specified in Part D of this document.

Please refer to Topo B, for existing roads.

B. New or Reconstructed Access Roads:

All new or reconstructed roads will be located, designed, and maintained to meet the standards of the BIA.

Each new well pad or pad expansion may require construction of a new access road and/or de-commissioning of an older road. Plans, routes, and distances for new roads and road improvements are provided in design packages, exhibits and maps for a project. Project-specific maps are submitted to depict the locations of existing, proposed, and/or decommissioned and include the locations for supporting structures, including, but not limited to, culverts, bridges, low water crossings, range infrastructure, and haul routes, as per OSO 1. Designs for cuts and fills, including spoils source and storage areas, are provided with the road designs, as necessary.

Where safety objectives can be met. As applicable, Kerr-McGee may use unimproved and/or two-track roads for lease operations, to lessen total disturbance.

Road designs will be based on the road safety requirements, traffic characteristics, environmental conditions, and the vehicles the road is intended to carry. Generally, newly constructed unpaved lease roads will be crowned and ditched with the running surfaces of the roads approximately 12-18 feet wide and a total road corridor width not to exceed 45 feet, except where noted in the road design for a specific project. Maximum grade will generally not exceed 8%. Borrow ditches will be back sloped 3:1 or less. Construction BMPs will be employed to control onsite and offsite erosion.

Where topography would direct storm water runoff to an access road or well pad, drainage ditches or other common drainage control facilities, such as V- or wing-ditches, will be constructed to divert surface water runoff. Drainage features, including culverts, will be constructed or installed prior to commencing other operations, including drilling or facilities placement. Riprap will be placed at the inlet and outlet at the culvert(s), as necessary.

Prior to construction, new access road(s) will be staked according to the requirements of OSO 1. Construction activity will not be conducted using frozen or saturated materials or during periods when significant watershed damage (e.g. rutting, extensive sheet soil erosion, formation of rills/gullies, etc.) is likely to occur. Vegetative debris will not be placed in or under fill embankments.

New road maintenance will include, but is not limited to, blading, ditching, culvert installation and cleanout, gravel surfacing where excessive rutting or erosion may occur and dust control, as necessary to ensure safe operating conditions. All vehicular traffic, personnel movement, construction/restoration operations will be confined to the approved area and to existing roadways and/or access routes.

Snow removal will be conducted on an as-needed basis to accommodate safe travel. Snow removal will occur as necessary throughout the year, as will necessary drainage ditch construction. Removed snow may be stored on permitted well pads to reduce hauling distances and/or at the aerial extent of approved disturbance boundaries to facilitate snow removal for the remainder of the season.

If a county road crossing or encroachment permit is needed, it will be obtained prior to construction.

The following segments will require a ROW to be submitted under a different cover to the Ute Indian Tribe.

 \pm 480' (0.09 miles) – Section 23 T9S R21E (NE/4NW/4) – On-lease UTU0149075 Ute Indian Tribe surface, re-route the originally constructed road from the western edge of the pad going southerly to tie into the existing road. Please refer to Topo B.

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C. Location of Existing Wells:

A) Refer to Topo Map C.

D. Location of Existing and/or Proposed Facilities:

This pad will expand the existing pad for the NBU 921-23C, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on November 4, 2011. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

Should the well(s) prove productive, production facilities will be installed on the disturbed portion of each well pad. A berm will be constructed completely around production components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will generally be constructed of compacted subsoil or corrugated metal, and will hold the capacity of the largest tank and have sufficient freeboard to accommodate a 25 year rainfall event. This includes pumping units. Aboveground structures constructed or installed onsite for 6 months or longer, will be painted a flat, non-reflective, earth-tone color chosen at the onsite (typically Shadow Gray). A production facility layout is provided as part of a project-specific APD, ROW or NOS submission.

GAS GATHERING

Please refer to Topo D2- Pad and Pipeline Detail.

The gas gathering pipeline material: Steel line pipe. Surface = Bare pipe. Buried = Coated with fusion bonded epoxy coating (or equivalent). The total gas gathering pipeline distance from the meter to the tie in point is $\pm 3,655$ ° and the individual segments are broken up as follows:

The following segments will require a ROW to be submitted under a different cover to the Ute Indian Tribe.

±3,655' (0.69 miles) – Section 23 T9S R21E (NW/4) – On-lease UTU0149075 Ute Indian Tribe surface, New 8" and 10" buried gas gathering pipeline from the meter to the NBU 921-22H intersection. Please refer to Topo D2 - Pad and Pipeline Detail.

LIQUID GATHERING

Please refer to Topo D2- Pad and Pipeline Detail.

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 3,655$ ' and the individual segments are broken up as follows:

The following segments will require a ROW to be submitted under a different cover to the Ute Indian Tribe.

 $\pm 3,655$ ' (0.69 miles) – Section 23 T9S R21E (NW/4) – On-lease UTU0149075 Ute Indian Tribe surface, New 6" buried liquid gathering pipeline from the meter to the NBU 921-22H intersection. Please refer to Topo D2 - Pad and Pipeline Detail.

Pipeline Gathering Construction

Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee. Gas gathering pipeline(s,) gas lift, or liquids pipelines may be constructed to lie on the surface or be buried. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. The area of disturbance during construction from the edge of road or well pad will typically be 30' in width. Where pipelines run cross country, the width of disturbance will typically be 45 ft for buried lines and 30 ft for surface lines. In addition, Kerr-McGee requests for a permanent 30' disturbance width that will be maintained for the portion adjacent to the road. The need for the 30' permanent disturbance width is for maintenance and repairs. Cross country permanent disturbance width also are required to be 30ft.

Above-ground installation will generally not require clearing of vegetation or blading of the surface, except where safety considerations necessitate earthwork. In some surface pipeline installation instances pipe cannot be constructed where it will lay. In these cases where an above-ground pipeline is constructed parallel and adjacent to a road, it will be welded/fused on the road and then lifted from the road to the pipeline route. In other cases where a pipeline route is not parallel and adjacent to a road (cross-country between sites), it will be welded/fused in place at a well pad, access road, or designated work area and pulled between connection locations with a suitable piece of equipment.

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Buried pipelines will generally be installed parallel and adjacent to existing and/or newly constructed roads and within the permitted disturbance corridor. Buried pipelines may vary from 2 inches (typically fuel gas lines) to 24 inches (typically transportation lines) in diameter, but 6 to 16 inches is typical for a buried gas line. The diameter of liquids pipelines may vary from 2 inches to 12 inches, but 6 inches is the typical diameter. Gas lift lines may vary from 2 to 12 inches in diameter, but 6-inch diameter pipes are generally used for gas lift. If two or more pipelines are present (gas gathering, gas lift, and fluids), they will share a common trench where possible.

Typically, to install a buried pipeline, topsoil will be removed, windrowed and placed on the non-working side of the route for later reclamation. Because working room is limited, the spoil may be spread out across the working side and construction will take place on the spoil. The working side of the corridor will be used for pipe stringing, bending, welding and equipment travel. Small areas on the working side displaying ruts or uneven ground will be groomed to facilitate the safe passage of equipment. After the pipelines are installed, spoil will be placed back into the trench, and the topsoil will be redistributed over the disturbed corridor prior to final reclamation. Typical depth of the trench will be 6 feet, but depths may vary according to site-specific conditions (presence of bedrock, etc.). The proposed trench width for the pipeline would range from 18-48 inches.

The pipeline will be welded along the proposed route and lowered into place. Trenching equipment will cut through the soil or into the bedrock and create good backfill, eliminating the need to remove large rocks. The proposed buried pipeline will be visually and radiographically inspected and the entire pipeline will be pneumatically or hydrostatically tested before being placed into service. Routine vehicle traffic will be prevented from using pipeline routes as travel ways by posting signs at the route's intersection with an access road.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

If pipelines or roads encounter a drainage that could be subject to flooding or surface water during extreme precipitation events, Kerr-McGee will apply all applicable Army Corps mandates as well as the BLM's Hydraulic Considerations for Pipeline Crossings of Stream Channels (BLM Technical Note 423, April 2007). In addition, all stream and drainage crossings will be evaluated to determine the need for stream alteration permits from the State of Utah Division of Water Rights and if necessary, required permits will be secured. Similarly, where a road or pipeline crossing exists the pipe will be butt welded and buried to a depth between 24 and 48 inches or more. Dirt roads will be cut and restored to a condition equivalent to the existing condition. All Uintah County road encroachment and crossing permits, where applicable, will be obtained prior to crossing construction. In no case will pressure testing of pipelines result in discharge of liquids to the surface.

Pipeline signs will be installed along the route to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves and lateral T's will be installed at various locations for production integrity and safety purposes.

Upon completion of the proposed buried pipeline, the entire area of disturbance will be reclaimed to the standards proposed in the Green River District Reclamation Guidelines. Please refer to section J for more details regarding final reclamation

When no longer deemed necessary by the operator, Kerr-McGee or it's successor will consult with the Vernal BIA Office before terminating of the use of the pipeline(s).

The Anadarko Completions Transportation System (ACTS) information:

Kerr-McGee will use either a closed loop drilling system that will require one pit and one storage area to be constructed on the drilling pad or a traditional drilling operation with one pit. The storage area will be used to contain only the de-watered drill cuttings and will be lined and reclaimed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit is lined and will be used for the wells drilled on the pad or used as part of our Anadarko Completions Transportation (ACTS) system which is discussed in more detail below. Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completion pit.

If Kerr-McGee does not use a closed loop system, it will construct a drilling reserve pit to contain drill cuttings and for use in completion operations. Depending on the location of the pit, its relation to future drilling locations, the reserve/completion pit will be utilized for the completion of the wells on that pad and/or be used as part of our ACTS system.

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Kerr-McGee will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of frac fluids by utilizing existing reserve pits and temporary, surface-laid aluminum liquids transfer lines between frac locations. The pit will be refurbished as follows when a traditional drill pit is used: mix and pile up drill cuttings with dry dirt, bury the original liner in the pit, walk bottom of pit with cat. Kerr-McGee will reline the pit with a 30 mil liner and double felt padding. The refurbished pit will be the same size or smaller as specified in the originally approved ROW/APD. The pit refurb will be done in a normal procedure and there will be no modification to the pit.

All four sides of the completions pit will be fenced in according to standard pit fencing procedures. Netting will be installed over all pits.

The collected hydrocarbons will be treated and sold at approved sales facilities. A loading rack with drip containment will also be installed where water trucks would unload and load to prevent damage caused from pulling hoses in and out of the pit .

ACTS will require temporarily laying multiple 6" aluminum water transfer lines on the surface between either existing or refurbished reserve pits. The temporary aluminum transfer lines will be utilized to transport frac fluid being injected and/or recovered during the completion process and will be laid adjacent to existing access roads or pipeline corridors. Upon completion of the frac operation, the liquids transfer lines will be flushed with fresh water and purged with compressed air. The contents of the transfer lines will be flushed into a water truck for delivery to another ACTS location or a reserve pit.

The temporary ACTS lines will be permitted under a separate cover to the Ute Indian Tribe.

The volume of frac fluid transported through a water transfer line will vary, but volume is projected to be approximately 1.75 bbls per 50-foot joint. Although the maximum working pressure is 125 psig, the liquids transfer lines will be operated at a pressure of approximately 30 to 40 psig. Kerr-McGee requests to keep the netted pit open for one year from first production of the first produced well on the pad. During this time the surrounding well location completion fluids may be recycled in this pit and utilized for other frac jobs in the area. After one year Kerr-McGee will backfill the pit and reclaim. If the pit is not needed for an entire year it will be backfilled and reclaimed earlier. Kerr-McGee understands that due to the temporary nature of this system, BIA considers this a casual use situation; therefore, no permanent ROW or temporary use plan will need to be issued by the BIA.

E. Location and Types of Water Supply:

Water for drilling and completion operations will be obtained from the following sources:

Permit # 49-2307	JD Field Services	Green River- Section 15, T2N, R22E
Permit # 49-2321	R.N. Industries	White River- Section 2, T10S, R24E
Permit # 49-2319	R.N. Industries	White River- Various Sources
Permit # 49-2320	R.N. Industries	Green River- Section 33, T8S, R23E

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

F. Construction Materials:

Construction operations will typically be completed with native materials found on location. Construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source (described in site-specific documents). No construction materials will be removed from Tribal lands without prior approval from the BIA. A source location other than an on-location construction site will be designated either via a map or narrative within the project specific materials provided to the BIA.

G. Methods for Handling Waste:

All wastes subject to regulation will be handled in compliance with applicable laws to minimize the potential for leaks or spills to the environment. Kerr-McGee also maintains a Spill Control and Countermeasure Plan, which includes notification requirements, including the BIA, for all reportable spills of oil, produced liquids, and hazardous materials.

Any accidental release, such as a leak or spill in excess of the reportable quantity, as established by 40 CFR Part 117.3, will be reported as per the requirements of CERCLA, Section 102 B. If a release involves petroleum hydrocarbons or produced liquids, Kerr-McGee will comply with the notification requirements of NTL-3A. Drill cuttings and/or drilling fluids will be contained in the reserve/frac pit whether a closed loop system is used or not. Cuttings will be buried in pit(s) upon closure. Unless specifically approved by the BIA, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

API Well Number: 43047527150000

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Pits will be constructed to minimize the accumulation of surface precipitation runoff into the pit (via appropriate placement of subsoil storage areas and/or construction of berms, ditches, etc.). Should unexpected liquid petroleum hydrocarbons (crude oil or condensate) be encountered during drilling, completions or well testing, liquid petroleum hydrocarbons will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by the BIA. Should timely removal not be feasible, the pit will be netted as soon as practical. Similarly, hydrocarbon removal will take place prior to the closure of the pit, unless authorization is provided for disposal via alternate pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with an impermeable liner. The liner will be a synthetic material 30 mil or thicker. The bottom and side walls of the pit will be void of any sharp rocks that could puncture the liner. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. After evaporation and when dry, the reserve pit liners will be cut off, ripped and/or folded back (as safety considerations allow) as near to the mud surface as possible and buried on location or hauled to a landfill prior to backfilling the pit with a minimum of five feet of soil material.

Where necessary and if conditions (freeboard, etc.) allow, produced liquids from newly completed wells may be temporarily disposed of into pits for a period not to exceed 90 days as per Onshore Order Number 7 (OSO 7). Subsequently, permanent approved produced water disposal methods will be employed in accordance with OSO 7 and/or as described in a Water Management Plan (WMP). Otherwise, fluids disposal locations and associated haul routes, for ROW consideration, are typically depicted on Topo A of individual projects. Revisions to the water source or method of transportation will be subject to written approval from the BIA.

Any additional pits necessary for subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after one year from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse (trash and other solid waste including cans, paper, cable, etc.) generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility. Immediately after removal of the drilling rig, all debris and other waste materials not contained within trash receptacles will be collected and removed from the well location

For the protection of livestock and wildlife, all open pits (excluding flare pits) will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet. Siphons, catchments, and absorbent pads will be installed to keep hydrocarbons produced by the drilling rig or other equipment on location from entering the reserve pit. Hydrocarbons, contaminated pads, and/or soils will be disposed of in accordance with state and federal requirements.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

API Well Number: 43047527150000

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Hazardous materials may be contained in some grease or lubricants, solvents, acids, paint, and herbicides, among others as defined above. Kerr-McGee maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances that are used during the course of construction, drilling, completion, and production operations for this project. The transport, use, storage and handling of hazardous materials will follow procedures specified by federal and state regulations. Transportation of hazardous materials to the well location is regulated by the Department of Transportation (DOT) under 49 CFR, Parts 171-180. DOT regulations pertain to the packing, container handling, labeling, vehicle placarding, and other safety aspects.

Potentially hazardous materials used in the development or operation of wells will be kept in limited quantities on well sites and at the production facilities for short periods of time. Chemicals meeting the criteria for being an acutely hazardous material/substance or meet the quantities criteria per BLM Instruction Memorandum No. 93-344 will not be used.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities (crude oil/condensate, produced water). They may also be kept in limited quantities on drilling sites (barite, diesel fuel, cement, cottonseed hulls etc.) for short periods of time during drilling or completion activities.

Fluids disposal and pipeline/haul routes are depicted on Topo Map A.

Any produced water separated from recoverable condensate from the proposed well will be contained in a water tank and will then be transported by pipeline and/or truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E NBU #159 in Sec. 35 T9S R21E Ace Oilfield in Sec. 2 T6S R20E MC&MC in Sec. 12 T6S R19E Pipeline Facility in Sec. 36 T9S R20E

Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E Bonanza Evaporation Pond in Sec. 2 T10S R23E

Or to one of the following Kerr-McGee active Salt Water Disposal (SWD) wells:

NBU 159 SWD in Sec. 35 T9S R21E CIGE 112D SWD in Sec. 19 T9S R21E CIGE 114 SWD in Sec. 34 T9S R21E NBU 921-34K SWD in Sec. 34 T9S R21E NBU 921-33F SWD in Sec. 34 T9S R21E

H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

I. Well Site Layout:

The location, orientation and aerial extent of each drill pad, reserve/completion/flare pit (for closed loop or non-closed loop operations), access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure, proposed cuts and fills, and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment depending on whether a closed loop system is used. Surface distance may be less if using closed loop. But in either case, the area of disturbance will not exceed the maximum disturbance outlined in the attached exhibits.

For the protection of livestock and wildlife, all open pits and cellars will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Each well will utilize either a centralized tank battery, centralized fluids management system, or have tanks installed on its pad. Production/ Produced Liquid tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks will be kept reasonably free from surface accumulations of liquid hydrocarbons. The tanks are not to be used for disposal of liquids from additional sources without prior approval of BIA.

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J. Plans for Surface Reclamation:

The surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. Interim reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but is not limited to the re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation may include pit evaporation, fluid removal, pit solidification, re-contouring, ripping, spreading top soil, seeding, and/or weed control. Interim reclamation will be performed in accordance with OSO 1, or written notification will be provided to the BIA for approval. Where feasible, drilling locations, reserve pits, or access routes not utilized for production operations will be re-contoured to a natural appearance.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left "rough" after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit. Disposal of pit fluids and linings is discussed in Section G.

Final Reclamation

Final reclamation will be performed for unproductive wells and after the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by Kerr-McGee. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. The BIA will be notified prior to commencement of reclamation operations. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring the site to the approximate contour that existed prior to pad construction, final grading will be conducted over the entire surface of the well site and access road. The area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers, where practical. The surface soil material will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep, where practical. The entire area will be uniformly covered with the depressions constructed perpendicular to the natural flow of water.

Reclamation of roads will be performed at the discretion of the BIA/Tribe. All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded in accordance with the seeding specifications as proposed below in "Measures Common to Interim and Final Reclamation".

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to the BIA/Tribe.

NBU 921-23C1BS/921-23C1CS/921-23C4BS/921-23D1BS/921-23D1CS/921-23D4BS Kerr-McGee Oil Gas Onshore, L.P.

NBU 921-23C Pad Surface Use Plan of Operations 9 of 11

Measures Common to Interim and Final Reclamation

Soil preparation will be conducted using a disk for areas in need of more soil preparation following site preparation. This will provide primary soil tillage to a depth no greater than 6 inches. Prior to reseeding, compacted areas will be scarified by ripping or chiseling to loosen compacted soils, promote water infiltration, and improve soil aeration and root penetration.

Seeding will occur year-round as conditions allow and will typically be accomplished through the use of a no-till rangeland style seed drill with a "picker box" in order to seed "fluffy" seed. Where drill seeding is not the preferred method, seed will be broadcast and then raked into the ground at double the rate of drill seeding. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for

re-vegetation. The seed mixes will be selected from a list provided by or approved by the BIA/Tribe or a specific seed mix will be proposed by Kerr-McGee to the BIA/Tribe and used after its approval. The selected specific seed mix for each well location and road segment will be utilized while performing interim and final reclamation for each project. All seed will be certified and tags will be maintained by Kerr-McGee. Every effort will be made to obtain "cheat grass free seed".

Seed Mix to be used for Well Site, Access Road, and Pipeline (as applicable):

Indian Ricegrass (Nezpar)	3
Sandberg Bluegrass	0.75
Bottlebrush Squirreltail	1
Great Basin Wildrye	0.5
Crested Wheatgrass	1.5
Winterfat	0.25
Shadscale	1.5
Four-wing Saltbrush	0.75
Forage Kochia	0.25
Total	9.5

Additional soil amendments and/or stabilization may be required on sites with poor soils and/or excessive erosion potential. Where severe erosion can become a problem and/or the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. Slopes will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to: erosion control blankets, hydro-mulch, and/or bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Weed Control

Noxious weeds will be controlled in akk orihect areas un accordance with all applicable rules and regulations.

K. Surface/Mineral Ownership:

Ute Indian Tribe
United States of America
P.O. Box 70
Bureau of Land Management
988 South 7500 East Annex Building
Fort Duschesne, UT 84026
Vernal, UT 84078
(435) 722-4307
(435)781-4400

L. Other Information:

Onsite Specifics:

- Arch monitor during construction
- · Paleo monitor during construction
- Existing road to be re-routed should be ripped and made impassible

NBU 921-23C1BS/921-23C1CS/921-23C4BS/921-23D1BS/921-23D1CS/921-23D4BS Kerr-McGee Oil Gas Onshore, L.P.

NBU 921-23C Pad Surface Use Plan of Operations 10 of 11

Cultural and Paleontological Resources

All personnel are strictly prohibited from collecting artifacts, any paleontological specimens or fossils, and from disturbing any significant cultural resources in the area. If artifacts, fossils, or any culturally sensitive materials are exposed or identified in the area of construction, all construction operations that would affect the newly discovered resource will cease, and Kerr-McGee will provide immediate notification to the BIA.

Resource Reports:

Resource Reports:

A Class I literature survey was completed in September, 2011 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 11-261.

A paleontological reconnaissance survey was completed on June 22, 2010 by SWCA Environmental Consultants. For additional details please refer to report UT11-14314-126.

Biological field survey was completed on August 17 and 18, 2011 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-576.

Proposed Action Annual Emissions Tables:

Table 1: Proposed Action Annual Emissions (tons/year) ¹				
Pollutant	Development	Production	Total	
NOx	3.8	0.12	3.92	
CO	2.2	0.11	2.31	
VOC	0.1	4.9	5	
SO_2	0.005	0.0043	0.0093	
PM_{10}	1.7	0.11	1.81	
PM _{2.5}	0.4	0.025	0.425	
Benzene	2.2E-03	0.044	0.046	
Toluene	1.6E-03	0.103	0.105	
Ethylbenzene	3.4E-04	0.005	0.005	
Xylene	1.1E-03	0.076	0.077	
n-Hexane	1.7E-04	0.145	0.145	
Formaldehyde	1.3E-02	8.64E-05	1.31E-02	

 $[\]overline{}^{1}$ Emissions include 1 producing well and associated operations traffic during the year in which the project is developed

Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison					
Species	Proposed Action Production Emissions (ton/yr)	WRAP Phase III 2012 Uintah Basin Emission Inventory ^a (ton/yr)	to WRAP Phase		
NOx	23.52	16,547	0.14%		
VOC	30	127,495	0.02%		

a http://www.wrapair.org/forums/ogwg/PhaseIII_Inventory.html

Uintah Basin Data

API Well Number: 43047527150000

NBU 921-23C1BS/921-23C1CS/921-23C4BS/921-23D1BS/921-23D1CS/921-23D4BS Kerr-McGee Oil Gas Onshore, L.P.

NBU 921-23C Pad Surface Use Plan of Operations 11 of 11

M. Lessee's or Operators' Representative & Certification:

Laura Abrams Regulatory Analyst II Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6356 Tommy Thompson General Manager, Drilling Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filling of false statements.

December 28, 2011

Date

Laura Abrams



Kerr-McGee Oil & Gas Onshore LP PO Box 173779 DENVER, CO 80217-3779

October 10, 2011

Ms. Diana Mason Division of Oil, Gas and Mining P.O. Box 145801 Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11

NBU 921-23C1CS

T9S-R21E

Section 23 NENW (Surface and Bottom Hole)

Surface: 790' FNL, 1963' FWL Bottom Hole: 413' FNL, 2145' FWL

Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling.

- Kerr-McGee's NBU 921-23C1CS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing roads and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

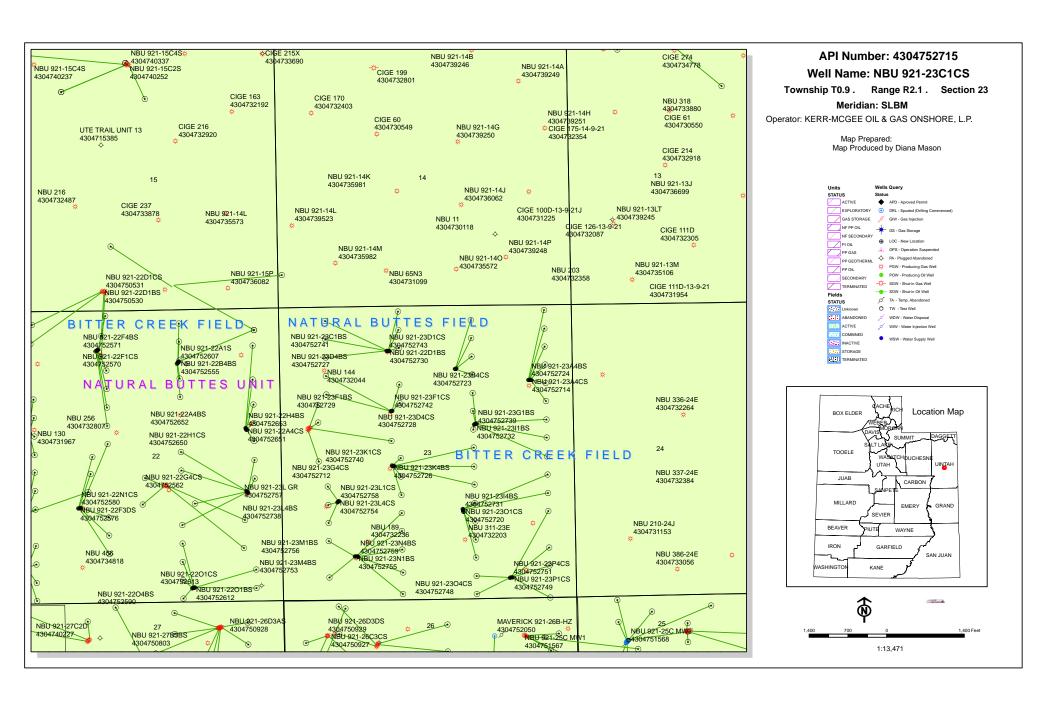
Therefore, based on the above stated information, Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

Joe Matney Sr. Staff Landman

Joe Matiney



API Well Number: 43047527150000

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

May 30, 2012

Sec 32 T09S R22E 0243 FNL 0813 FWL

Sec 23 T09S R21E 2126 FNL 1774 FEL BHL Sec 23 T09S R21E 1898 FNL 1817 FEL

Sec 23 T09S R21E 2144 FNL 1799 FEL BHL Sec 23 T09S R21E 2228 FNL 1817 FEL

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2012 Plan of Development Natural Buttes Unit

Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2012 within the Natural Buttes Unit, Uintah County, Utah.

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

43-047-52691 NBU 922-30P1BS

WELL PAD - NBU 922-32D1

WELL PAD - NBU 921-23G

43-047-52700 NBU 921-23G1CS

43-047-52701 NBU 921-23G4BS

BHL Sec 30 T09S R22E 1246 FSL 0525 FEL 43-047-52693 NBU 922-30P4BS Sec 32 T09S R22E 0255 FNL 0797 FWL BHL Sec 30 T09S R22E 0576 FSL 0601 FEL 43-047-52694 NBU 922-30P1CS Sec 32 T09S R22E 0249 FNL 0805 FWL BHL Sec 30 T09S R22E 0908 FSL 0574 FEL 43-047-52695 NBU 922-30P3DS Sec 32 T09S R22E 0261 FNL 0789 FWL BHL Sec 30 T09S R22E 0229 FSL 0778 FEL WELL PAD - NBU 921-23B 43-047-52696 NBU 921-23B1BS Sec 23 T09S R21E 1133 FNL 2116 FEL BHL Sec 23 T09S R21E 0247 FNL 1816 FEL Sec 23 T09S R21E 1124 FNL 2098 FEL 43-047-52706 NBU 921-23B4BS BHL Sec 23 T09S R21E 0907 FNL 1816 FEL 43-047-52716 NBU 921-23B1CS Sec 23 T09S R21E 1128 FNL 2107 FEL BHL Sec 23 T09S R21E 0577 FNL 1816 FEL 43-047-52723 NBU 921-23B4CS Sec 23 T09S R21E 1137 FNL 2125 FEL BHL Sec 23 T09S R21E 1238 FNL 1816 FEL

RECEIVED: May 30, 2012

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API #	Ī	WELL NAME			LOCAT	ION		
(Proposed PZ	WASA	ATCH-MESA VERD	E)					
43-047-52702	NBU	921-23H4BS BHL						
43-047-52703	NBU	921-23H4CS BHL					1782 0493	
43-047-52732	NBU	921-23I1BS BHL						
		921-23G1BS BHL						
WELL PAD - N								
43-047-52704	NBU	921-23H1CS BHL					0762 0493	
43-047-52705	NBU	921-23A1BS BHL						
43-047-52711	NBU	921-23H1BS BHL					0752 0493	
43-047-52714	NBU	921-23A4CS BHL					0772 0493	
43-047-52722	NBU	921-23A1CS BHL					0792 0493	
		921-23A4BS BHL						
WELL PAD - N	BU 92	21-23J						
43-047-52707	NBU	921-23J4BS BHL					2036 1817	
43-047-52713	NBU	921-23I1CS BHL					2034 0494	
43-047-52717	NBU	921-2301BS BHL					2029 1818	
43-047-52719	NBU	921-23J4CS BHL					2031 1818	
43-047-52720	NBU	921-2301CS BHL					2028 1818	
							2032 0494	
WELL PAD - N								
43-047-52708	NBU	921-23K1BS BHL					1995 2147	
43-047-52709	NBU	921-23J1BS BHL					2022 1817	

API # WELL NAME LOCATION (Proposed PZ WASATCH-MESA VERDE) BHL Sec 23 T09S R21E 2064 FSL 1817 FEL BHL Sec 23 T09S R21E 2559 FNL 1817 FEL 43-047-52726 NBU 921-23K4BS Sec 23 T09S R21E 2435 FSL 1986 FWL BHL Sec 23 T09S R21E 1901 FSL 2148 FWL BHL Sec 23 T09S R21E 2232 FSL 2147 FWL WELL PAD - NBU 921-23C 43-047-52715 NBU 921-23C1CS Sec 23 T09S R21E 0790 FNL 1963 FWL BHL Sec 23 T09S R21E 0413 FNL 2145 FWL 43-047-52725 NBU 921-23C4BS Sec 23 T09S R21E 0789 FNL 1973 FWL BHL Sec 23 T09S R21E 0743 FNL 2145 FWL 43-047-52727 NBU 921-23D4BS Sec 23 T09S R21E 0794 FNL 1924 FWL BHL Sec 23 T09S R21E 0910 FNL 0823 FWL BHL Sec 23 T09S R21E 0249 FNL 0823 FWL 43-047-52741 NBU 921-23C1BS Sec 23 T09S R21E 0791 FNL 1954 FWL BHL Sec 23 T09S R21E 0083 FNL 2145 FWL Sec 23 T09S R21E 0793 FNL 1934 FWL 43-047-52743 NBU 921-23D1CS BHL Sec 23 T09S R21E 0579 FNL 0823 FWL WELL PAD - NBU 921-23F BHL Sec 23 T09S R21E 1572 FNL 0823 FWL BHL Sec 23 T09S R21E 1241 FNL 0823 FWL 43-047-52729 NBU 921-23F1BS Sec 23 T09S R21E 1882 FNL 2002 FWL BHL Sec 23 T09S R21E 1405 FNL 2146 FWL 43-047-52742 NBU 921-23F1CS Sec 23 T09S R21E 1879 FNL 2011 FWL BHL Sec 23 T09S R21E 1735 FNL 2146 FWL WELL PAD - NBU 921-23L 43-047-52738 NBU 921-23L4BS Sec 23 T09S R21E 1782 FSL 0991 FWL BHL Sec 23 T09S R21E 1739 FSL 0824 FWL

BHL Sec 23 T09S R21E 1408 FSL 0824 FWL

BHL Sec 23 T09S R21E 2070 FSL 0824 FWL

Page 3

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

WELL PAD - NBU 921-23P 43-047-52744 NBU 921-23P4BS Sec 23 T09S R21E 0383 FSL 1166 FEL BHL Sec 23 T09S R21E 0578 FSL 0494 FEL 43-047-52746 NBU 921-2304BS Sec 23 T09S R21E 0375 FSL 1205 FEL BHL Sec 23 T09S R21E 0414 FSL 1818 FEL BHL Sec 23 T09S R21E 1567 FSL 0494 FEL BHL Sec 23 T09S R21E 0084 FSL 1818 FEL 43-047-52749 NBU 921-23P1CS Sec 23 T09S R21E 0381 FSL 1175 FEL BHL Sec 23 T09S R21E 0907 FSL 0494 FEL 43-047-52751 NBU 921-23P4CS Sec 23 T09S R21E 0379 FSL 1185 FEL BHL Sec 23 T09S R21E 0005 FSL 0494 FEL WELL PAD - NBU 921-23M BHL Sec 23 T09S R21E 0105 FSL 2149 FWL BHL Sec 23 T09S R21E 0910 FSL 2148 FWL 43-047-52752 NBU 921-23K4CS Sec 23 T09S R21E 0794 FSL 1310 FWL BHL Sec 23 T09S R21E 1571 FSL 2148 FWL 43-047-52753 NBU 921-23M4BS Sec 23 T09S R21E 0795 FSL 1300 FWL BHL Sec 23 T09S R21E 0415 FSL 0824 FWL BHL Sec 23 T09S R21E 1240 FSL 2148 FWL BHL Sec 23 T09S R21E 1077 FSL 0824 FWL

This office has no objection to permitting the wells at this time.

BHL Sec 23 T09S R21E 0495 FSL 2158 FWL



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API Well Number: 43047527150000

bcc: File - Natural Buttes Unit

Division of Oil Gas and Mining

Central Files Agr. Sec. Chron Fluid Chron

MCoulthard:mc:5-30-12

API	Well Name	Surface Location
43-047-52691	NBU 922-30P1BS	Sec 32 T09S R22E 0243 FNL 0813 FWL
43-047-52693	NBU 922-30P4BS	Sec 32 T09S R22E 0255 FNL 0797 FWL
43-047-52694	NBU 922-30P1CS	Sec 32 T09S R22E 0249 FNL 0805 FWL
43-047-52695	NBU 922-30P3DS	Sec 32 T09S R22E 0261 FNL 0789 FWL
43-047-52696	NBU 921-23B1BS	Sec 23 T09S R21E 1133 FNL 2116 FEL
43-047-52700	NBU 921-23G1CS	Sec 23 T09S R21E 2126 FNL 1774 FEL
43-047-52701	NBU 921-23G4BS	Sec 23 T09S R21E 2144 FNL 1799 FEL
43-047-52702	NBU 921-23H4BS	Sec 23 T09S R21E 2115 FNL 1758 FEL
43-047-52703	NBU 921-23H4CS	Sec 23 T09S R21E 2132 FNL 1782 FEL
43-047-52704	NBU 921-23H1CS	Sec 23 T09S R21E 1343 FNL 0762 FEL
43-047-52705	NBU 921-23A1BS	Sec 23 T09S R21E 1344 FNL 0802 FEL
43-047-52706	NBU 921-23B4BS	Sec 23 T09S R21E 1124 FNL 2098 FEL
43-047-52707	NBU 921-23J4BS	Sec 23 T09S R21E 1628 FSL 2036 FEL
43-047-52708	NBU 921-23K1BS	Sec 23 T09S R21E 2431 FSL 1995 FWL
43-047-52709	NBU 921-23J1BS	Sec 23 T09S R21E 2419 FSL 2022 FWL
43-047-52710	NBU 921-23J1CS	Sec 23 T09S R21E 2415 FSL 2032 FWL
43-047-52711	NBU 921-23H1BS	Sec 23 T09S R21E 1343 FNL 0752 FEL
43-047-52712	NBU 921-23G4CS	Sec 23 T09S R21E 2423 FSL 2013 FWL
43-047-52713	NBU 921-23I1CS	Sec 23 T09S R21E 1618 FSL 2034 FEL
43-047-52714	NBU 921-23A4CS	Sec 23 T09S R21E 1343 FNL 0772 FEL
43-047-52715	NBU 921-23C1CS	Sec 23 T09S R21E 0790 FNL 1963 FWL
43-047-52716	NBU 921-23B1CS	Sec 23 T09S R21E 1128 FNL 2107 FEL
43-047-52717	NBU 921-2301BS	Sec 23 T09S R21E 1589 FSL 2029 FEL
43-047-52719	NBU 921-23J4CS	Sec 23 T09S R21E 1599 FSL 2031 FEL
43-047-52720	NBU 921-2301CS	Sec 23 T09S R21E 1579 FSL 2028 FEL
43-047-52721	NBU 921-23E1BS	Sec 23 T09S R21E 1888 FNL 1982 FWL
43-047-52722	NBU 921-23A1CS	Sec 23 T09S R21E 1343 FNL 0792 FEL
43-047-52723	NBU 921-23B4CS	Sec 23 T09S R21E 1137 FNL 2125 FEL
43-047-52724	NBU 921-23A4BS	Sec 23 T09S R21E 1343 FNL 0782 FEL
43-047-52725	NBU 921-23C4BS	Sec 23 T09S R21E 0789 FNL 1973 FWL
43-047-52726	NBU 921-23K4BS	Sec 23 T09S R21E 2435 FSL 1986 FWL
43-047-52727	NBU 921-23D4BS	Sec 23 T09S R21E 0794 FNL 1924 FWL
43-047-52728	NBU 921-23D4CS	Sec 23 T09S R21E 1885 FNL 1992 FWL
43-047-52729	NBU 921-23F1BS	Sec 23 T09S R21E 1882 FNL 2002 FWL
43-047-52730	NBU 921-23D1BS	Sec 23 T09S R21E 0792 FNL 1944 FWL
43-047-52732	NBU 921-23I4BS NBU 921-23I1BS	Sec 23 T09S R21E 1608 FSL 2032 FEL Sec 23 T09S R21E 2138 FNL 1790 FEL
43-047-52738		Sec 23 T095 R21E 2138 FNL 1790 FEL Sec 23 T095 R21E 1782 FSL 0991 FWL
43-047-52739	NBU 921-23L4BS NBU 921-23G1BS	Sec 23 T095 R21E 1782 F3L 0991 FWL
43-047-52740	NBU 921-23G163	Sec 23 T095 R21E 2120 FNL 1766 FEL
43-047-52741	NBU 921-23K1C3	Sec 23 T093 R21E 2427 F3L 2004 FWL
43-047-52742	NBU 921-23C1B3	Sec 23 T093 R21E 0791 FNL 1934 FWL
43-047-52743	NBU 921-23P1C3	Sec 23 T093 R21E 1879 FNL 2011 FWL
43-047-52744	NBU 921-23D1C3	Sec 23 T095 R21E 0793 FNL 1934 FWL
43-047-52745	NBU 921-23N4CS	Sec 23 T093 R21E 0383 F3E 1100 FEE
43-047-52746	NBU 921-2304BS	Sec 23 T095 R21E 0751 T3E 1325 TWE
15 01, 52,40	1400 321-230403	300 23 1033 N21L 0373 13L 1203 1 LL

API	Well Name	Surface Location
43-047-52747	NBU 921-23I4CS	Sec 23 T09S R21E 0377 FSL 1195 FEL
43-047-52748	NBU 921-2304CS	Sec 23 T09S R21E 0373 FSL 1215 FEL
43-047-52749	NBU 921-23P1CS	Sec 23 T09S R21E 0381 FSL 1175 FEL
43-047-52750	NBU 921-23N1CS	Sec 23 T09S R21E 0790 FSL 1339 FWL
43-047-52751	NBU 921-23P4CS	Sec 23 T09S R21E 0379 FSL 1185 FEL
43-047-52752	NBU 921-23K4CS	Sec 23 T09S R21E 0794 FSL 1310 FWL
43-047-52753	NBU 921-23M4BS	Sec 23 T09S R21E 0795 FSL 1300 FWL
43-047-52754	NBU 921-23L4CS	Sec 23 T09S R21E 1788 FSL 0999 FWL
43-047-52755	NBU 921-23N1BS	Sec 23 T09S R21E 0792 FSL 1319 FWL
43-047-52756	NBU 921-23M1BS	Sec 23 T09S R21E 0796 FSL 1290 FWL
43-047-52758	NBU 921-23L1CS	Sec 23 T09S R21E 1794 FSL 1007 FWL
43-047-52759	NBU 921-23N4BS	Sec 23 T09S R21E 0788 FSL 1349 FWL

2 of 2 5/30/2012

API Well Number: 43047527150000

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 5/23/2012	API NO. ASSIGNED: 43047527150000

WELL NAME: NBU 921-23C1CS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: NENW 23 090S 210E Permit Tech Review:

> SURFACE: 0790 FNL 1963 FWL Engineering Review:

> **BOTTOM: 0413 FNL 2145 FWL** Geology Review:

COUNTY: UINTAH

LATITUDE: 40.02662 LONGITUDE: -109.52137 **UTM SURF EASTINGS: 626169.00** NORTHINGS: 4431759.00

FIELD NAME: NATURAL BUTTES LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU 0149075 PROPOSED PRODUCING FORMATION(S): BLACKHAWK

SURFACE OWNER: 2 - Indian **COALBED METHANE: NO**

RECEIVED AND/OR REVIEWED: LOCATION AND SITING: ✓ PLAT R649-2-3. Unit: NATURAL BUTTES Bond: FEDERAL - WYB000291 **Potash** R649-3-2. General Oil Shale 190-5 Oil Shale 190-3 R649-3-3. Exception **Drilling Unit** Oil Shale 190-13 Board Cause No: Cause 173-14 Water Permit: 43-8496 Effective Date: 12/2/1999 **RDCC Review:** Siting: Suspends General Siting Fee Surface Agreement

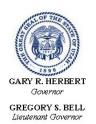
✓ Intent to Commingle R649-3-11. Directional Drill

Commingling Approved

Comments: Presite Completed

Stipulations:

3 - Commingling - ddoucet 4 - Federal Approval - dmason 15 - Directional - dmason 17 - Oil Shale 190-5(b) - dmason



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 921-23C1CS API Well Number: 43047527150000 Lease Number: UTU 0149075

Surface Owner: INDIAN Approval Date: 8/27/2012

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the BLACKHAWK Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil

shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at http://oilgas.ogm.utah.gov

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
 - Requests to Change Plans (Form 9) due prior to implementation
 - Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
 - Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas



UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

JAN 1 0 2012

FORM APPROVED OMB No. 1004-0136 Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER Vバム, U バル	APPLICATION FOR PERMIT TO DRII	LL ORLANGERNAL, UTA	-
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5. Lease Serial No. UTU0149075

6 If Indian Allattan on Triba Name

APPLICATION FOR PERIMIT	o. If Indian, Another of Thoe Name				
1a. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement, Name and No. UTU63047A			
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Otl	her Single Zone Multiple Zone	8. Lease Name and Well No. NBU 921-23C1CS			
2. Name of Operator Contact: KERR MCGEE OIL&GAS ONSHOREM&IPLaura.A	9. API Well No. 152715				
3a. Address PO BOX 173779 DENVER, CO 80202-3779	10. Field and Pool, or Exploratory NATURAL BUTTES				
4. Location of Well (Report location clearly and in accorded	nce with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area			
At surface NENW 790FNL 1963FWL	40.026656 N Lat, 109.521424 W Lon	Sec 23 T9S R21E Mer SLB			
At proposed prod. zone NENW 413FNL 2145FWL	<u> </u>				
14. Distance in miles and direction from nearest town or post APPROXIMATELY 45.5 MILES SOUTH OF VEI	12. County or Parish UINTAH 13. State				
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 413' 16. No. of Acres in Lease 640.00		17. Spacing Unit dedicated to this well			
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.		20. BLM/BIA Bond No. on file			
449'	11090 MD 11061 TVD	WYB000291			
21. Elevations (Show whether DF, KB, RT, GL, etc. 4846 GL 22. Approximate date work will start 06/30/2012		23. Estimated duration 60-90 DAYS			
24. Attachments					
The following, completed in accordance with the requirements of	f Onshore Oil and Gas Order No. 1, shall be attached to the	his form:			
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). Bond to cover the operations unless covered by an existing be Item 20 above). Operator certification Such other site specific information and/or plans as may be reauthorized officer. 					
25. Signature (Electronic Submission)	Name (Printed/Typed) LAURA ABRAMS Ph: 720-929-6356	RECEIVED Date 12/29/2011			

Title REGULATORY ANALYST II

Approved by (Signature)

Title Assistant Field Manager Lands & Mineral Resources

Name (Printed/Typed) Jerry Kenczkov. of Oll., GAS & MINING

VERNAL FIELD OFFICE

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #127022 verified by the BLM Well Information System For KERR MCGEE OIL&GAS ONSHORE, LP, sent to the Vernal

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

APD

IZRRHI33IAE

NO NOS

APD posted



UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE** 170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Kerr McGee Oil & Gas Onshore LP	Location:	NENW, Sec. 23, T9S R21E
Well No:	NBU 921-23C1CS	Lease No:	UTU0149075
API No:	43-047-52715	Agreement:	Natural Buttes

OFFICE NUMBER:

(435) 781-4400

OFFICE FAX NUMBER:

(435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	_	The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm.ut_vn_opreport@blm.gov
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

Page 2 of 6 Well: NBU 921-23C1CS 8/2/2012

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.

Site specific COA's

- Paint facilities "Shadow Gray"
- Conduct a raptor survey prior to construction operations if such activities would take place during raptor nesting season (January 1 through September 30). If active raptor nests are identified during the survey, operations should be conducted according to the seasonal restrictions detailed in the Uinta Basin-specific RMP guidelines and spatial offsets specified by the USFWS Utah Raptor Guidelines.
- If constructed and/or drilling operations have not been initiated prior to August 24, 2012, conduct a biological survey to determine the presence of Uintah Basin hookless cactus in accordance with the guidelines specified in the USFWS Rare Plant Conservation Measures and the BLM RMP ROD. KMG will implement commitments contained in the GNB BO.
- Monitor construction operations with a Ute Energy & Minerals technician.
- Monitor construction operations with a permitted archeologist.
- Monitor construction operations with a permitted paleontologist.
- Narrow the reserve pit by 20' to avoid hill on west side of well pad.
- Move stockpile from corners #6, #7, and #8 to corners #3 and #4.
- Move topsoil stockpile from corners #9 and #10 to side #1 and #2.
- Double line the reserve pit.
- Consider utilizing closed-loop drilling system.

Page 3 of 6 Well: NBU 921-23C1CS 8/2/2012

DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

• Gamma ray Log shall be run from Total Depth to Surface.

Variances Granted:

Air Drilling

- Properly lubricated and maintained rotating head. Variance granted to use a properly maintained and lubricated diverter bowl in place of a rotating head.
- Blooie line discharge 100' from the well bore. Variance granted for blooie line discharge to be 45' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for truck/trailer mounted air compressors located 40'from the well bore.
- In lieu of mud products on location, Kerr McGee will fill the reserve pit with water for the kill
 medium and will utilize a skid pump near the reserve pit to supply the water to the well bore if
 necessary.
- Automatic igniter. Variance granted for igniter due to there being no productive formations encountered while air drilling.
- FIT Test. Variance granted due to well-known geology and the problems that can occur with the FIT test.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times.
 Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil &

Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be reported in the driller's log.

- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water
 is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM
 Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to BLM_UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 5 of 6 Well: NBU 921-23C1CS 8/2/2012

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - o Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - o The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field
 Office Petroleum Engineers will be provided with a date and time for the initial meter calibration
 and all future meter proving schedules. A copy of the meter calibration reports shall be
 submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API
 standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All
 measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted
 to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs
 first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be
 adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively
 sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
 equipment shall be removed from a well to be placed in a suspended status without prior
 approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30
 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given
 before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

Sundry Number: 41163 API Well Number: 43047527150000

	STATE OF UTAH		FORM 9
	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 0149075		
SUNDF	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In		
	oposals to drill new wells, significantly or reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-23C1CS		
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	9. API NUMBER: 43047527150000		
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18t	h Street, Suite 600, Denver, CO, 80217	PHONE NUMBER: 73779 720 929-	9. FIELD and POOL or WILDCAT: 5MATERAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0790 FNL 1963 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNS	HIP, RANGE, MERIDIAN: 23 Township: 09.0S Range: 21.0E Merio	dian: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICAT	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
✓ NOTICE OF INTENT	ACIDIZE	ALTER CASING	CASING REPAIR
Approximate date work will start: 8/27/2013	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
0/21/2013	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION
Date of Work Completion.	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:
12 DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show a	all nertinent details including dates	denths volumes atc
Kerr-McGee Oil & G an extension to this	Gas Onshore, L.P. (Kerr-McGe APD for the maximum time with any questions and/or co	ee) respectfully requests allowed. Please contact	Approved by the Utah Division of Oil, Gas and Mining
			Date: August 12, 2013
			By: Boogyfull
NAME (PLEASE PRINT) Teena Paulo	PHONE NUMB 720 929-6236	ER TITLE Staff Regulatory Specialist	
SIGNATURE	120 323-0230	DATE	
N/A		8/9/2013	

Sundry Number: 41163 API Well Number: 43047527150000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047527150000

API: 43047527150000 **Well Name:** NBU 921-23C1CS

Location: 0790 FNL 1963 FWL QTR NENW SEC 23 TWNP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 8/27/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

. onowing to	a oncomict or come money	ou to the apphouncin, while	on onoura bo vonnou.	
• If Ioca Yes(ted on private land, has the ow No	nership changed, if so, ha	s the surface agreemer	nt been updated? 🔵
	any wells been drilled in the vicements for this location?		I which would affect the	e spacing or siting
	ere been any unit or other agre sed well? 🤵 Yes 🍺 No	eements put in place that	could affect the permit	ting or operation of this
	there been any changes to the a sed location?		nership, or rightof- way	, which could affect the
• Has th	e approved source of water for	drilling changed? 🔵 🗅	′es 📵 No	
	here been any physical change from what was discussed at the			vill require a change in
• Is bon	ding still in place, which covers	s this proposed well? 🌘	Yes 🔘 No	
Signature:	Teena Paulo	Date: 8/9/2013		

Title: Staff Regulatory Specialist Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

RECEIVED: Aug. 09, 2013

Sundry Number: 53548 API Well Number: 43047527150000

	FORM 9					
ı	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 0149075					
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE					
	posals to drill new wells, significantly dee reenter plugged wells, or to drill horizontal n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES			
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 921-23C1CS			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.		9. API NUMBER: 43047527150000			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	PHO n Street, Suite 600, Denver, CO, 80217 37	ONE NUMBER: 79 720 929-6	9. FIELD and POOL or WILDCAT: 110ATUERAL BUTTES			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0790 FNL 1963 FWL			COUNTY: UINTAH			
QTR/QTR, SECTION, TOWNSH	IIP, RANGE, MERIDIAN: 23 Township: 09.0S Range: 21.0E Meridian	: S	STATE: UTAH			
11. CHECH	K APPROPRIATE BOXES TO INDICATE N	IATURE OF NOTICE, REPOR	T, OR OTHER DATA			
TYPE OF SUBMISSION		TYPE OF ACTION				
	ACIDIZE	ALTER CASING	CASING REPAIR			
Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME			
8/27/2014	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE			
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION			
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK			
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION			
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON			
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL			
DRILLING REPORT		SI TA STATUS EXTENSION	✓ APD EXTENSION			
Report Date:						
		OTHER	OTHER:			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you. Approved by the Utuly D7yi2014of Oil, Gas and Mining						
			Date:			
			By: Basqill			
NAME (PLEASE PRINT) Teena Paulo	PHONE NUMBER 720 929-6236	TITLE Staff Regulatory Specialist				
SIGNATURE N/A		DATE 7/16/2014				

Sundry Number: 53548 API Well Number: 43047527150000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047527150000

API: 43047527150000 Well Name: NBU 921-23C1CS

Location: 0790 FNL 1963 FWL QTR NENW SEC 23 TWNP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 8/27/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No
 Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No
• Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? (Yes (No
• Has the approved source of water for drilling changed? 🔘 Yes 📵 No
 Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
• Is bonding still in place, which covers this proposed well? 📵 Yes 🔘 No
nature: Teena Paulo Date: 7/16/2014

Sig

Title: Staff Regulatory Specialist Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010

5 .	Leas	se Se	rial	No
5.	UT	U01	490)7:

SUNDRY NOTICES AND REPORTS ON WELLS	UTU014907
not use this form for proposals to drill or to re-enter an	6_If Indian, Allo

1. Type of Well Gas Well Other 2. Name of Operator KERR MCGEE OIL & GAS ONSHORE		ctions on reverse	701	nal	7. If Unit or CA/Agree	ment, Name and/or No.
Oil Well Gas Well Other 2. Name of Operator					891008900A	
2. Name of Operator KERR MCGEE OIL & GAS ONSHORE					8. Well Name and No. NBU 921-23C1CS	····
	Contact: ELMail: teena.pauk	TEENA PAULO o@anadarko.com			9. API Well No. 43-047-52715-0	D-X1
3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078		3b. Phone No. (inclu Ph: 720-929-623 Fx: 720-929-72	No. (include area code) 929-6236 929-7256 CEIVED		10. Field and Pool, or Exploratory NATURAL BUTTES	
4. Location of Well (Footage, Sec., T., R., M., o.	r Survey Description,)			11. County or Parish, a	nd State
Sec 23 T9S R21E NENW 790FNL 196 40.026656 N Lat, 109.521424 W Lon	33FWL		EP 1 2 2		UINTAH COUNT	Y, UT
12. CHECK APPROPRIA	TE BOX(ES) TO		· · · · · · · ·	& MINING I NOTICE, RE	PORT, OR OTHER	DATA
TYPE OF SUBMISSION			TYPE O	F ACTION	- · · · · · · · · · · · · · · · · · · ·	
Notice of Intent	idize	☐ Deepen		☐ Producti	on (Start/Resume)	☐ Water Shut-Off
Al	ter Casing	☐ Fracture T	reat	☐ Reclama	tion	■ Well Integrity
☐ Subsequent Report ☐ Ca	sing Repair	■ New Cons	truction	☐ Recomp	lete	Other
☐ Final Abandonment Notice ☐ Ch	ange Plans	☐ Plug and A	Abandon	□ Tempora	rily Abandon	Change to Original A PD
Co	nvert to Injection	Plug Back		□ Water D	isposal	
testing has been completed. Final Abandonmen determined that the site is ready for final inspect Kerr-McGee Oil & Gas Onshore, L.P. (extension to this APD for the maximum undersigned with any questions and/or	tion.) Kerr-McGee) res n time allowed. Pl	pectfully requests lease contact the			VERNAL F ENG GEOL E.S	IELD OFFICE
					PET	
14. I hereby certify that the foregoing is true and control Electron	nic Submission #2 For KERR MCGEE	245018 verified by the Olf. & GAS ONSHO	ne BLM Wel ORE L, sent	li information t to the Verna	System	
Name (Printed/Typed) TEENA PAULO	A MOO TO PIOCO	Title			RY SPECIALIST	
Signature (Electronic Submission)	Date	05/09/2	014		
TI	HIS SPACE FO	R FEDERAL OF	STATE	OFFICE US	E	
Approved By		Title			old Menager ral Resources	AUS 0 7 2014
Conditions of approval it any are estached. Approvalertify that the applicant holds legal or equitable title which would entitle the applicant to conduct operation	al of this notice does to those rights in the ns thereon.	not warrant or subject lease Offic	ce V	ernal f	ELD OFFICE	

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Revisions to Operator-Submitted EC Data for Sundry Notice #245018

Operator Submitted

BLM Revised (AFMSS)

Sundry Type:

OTHER

NOI

Lease:

UTU0149075

Agreement:

Operator:

UTU63047A

KERR-MCGEE OIL & GAS ONSHORE L 1099 18TH STREET SUITE 1800 DENVER, CO 80202

Ph: 720-929-6000

Admin Contact:

TEENA PAULO STAF REGULATORY SPECIALIST E-Mail: teena.paulo@anadarko.com

Ph: 720-929-6236 Fx: 720-929-7236

Tech Contact:

TEENA PAULO STAF REGULATORY SPECIALIST E-Mail: teena.paulo@anadarko.com

Ph: 720-929-6236 Fx: 720-929-7236

Location:

State: County: UT UINTAH

Field/Pool:

NATURAL BUTTES

Well/Facility:

NBU 921-23C1CS Sec 23 T09S R21E Mer SLB NENW 790FNL 1963FWL

APDCH NOI

UTU0149075

891008900A (UTU63047A)

KERR MCGEE OIL & GAS ONSHORE L 1368 SOUTH 1200 EAST VERNAL, UT 84078 Ph: 435.789.3995

TEENA PAULO STAFF REGULATORY SPECIALIST E-Mail: teena.paulo@anadarko.com

Ph: 720-929-6236 Fx: 720-929-7236

TEENA PAULO STAFF REGULATORY SPECIALIST E-Mail: teena.paulo@anadarko.com

Ph: 720-929-6236 Fx: 720-929-7236

UT UINTAH

NATURAL BUTTES

NBU 921-23C1CS Sec 23 T9S R21E NENW 790FNL 1963FWL 40.026656 N Lat, 109.521424 W Lon

CONDITIONS OF APPROVAL

Kerr McGee Oil & Gas

Notice of Intent APD Extension

Lease:

UTU-0149075

Well:

NBU 921-23C1CS

Location:

NENW Sec 23 T9S-R21E

An extension for the referenced APD is granted with the following conditions:

- 1. The APD extension shall expire on 8/17/16
- 2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Michael Riches of this office at (435) 781-4438

Sundry Number: 64730 API Well Number: 43047527150000

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCE		FORM 9	
	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 0149075			
SUNDF	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE			
	oposals to drill new wells, significantly reenter plugged wells, or to drill horizo n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES	
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 921-23C1CS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047527150000	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	h Street, Suite 600, Denver, CO, 8021	PHONE NUMBER: 7 3779 720 929-0	9. FIELD and POOL or WILDCAT: 1NATURAL BUTTES	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0790 FNL 1963 FWL			COUNTY: UINTAH	
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 23 Township: 09.0S Range: 21.0E Meri	dian: S	STATE: UTAH	
11. CHEC	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOF	RT, OR OTHER DATA	
TYPE OF SUBMISSION		TYPE OF ACTION		
7	ACIDIZE	ALTER CASING	CASING REPAIR	
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME	
7/8/2015	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE	
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION	
Date of Work Completion.	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK	
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION	
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON	
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL	
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION	
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you. Date: By:				
NAME (PLEASE PRINT) Jennifer Thomas	PHONE NUME 720 929-6808	BER TITLE Regulatory Specialist		
SIGNATURE N/A		DATE 7/8/2015		

Sundry Number: 64730 API Well Number: 43047527150000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047527150000

API: 43047527150000 **Well Name:** NBU 921-23C1CS

Location: 0790 FNL 1963 FWL QTR NENW SEC 23 TWNP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 8/27/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

i onowing is	s a checklist of some items ie	ated to the application, which should be verified.
	cated on private land, has the o	ownership changed, if so, has the surface agreement been updated? 🔵
	e any wells been drilled in the irements for this location?	vicinity of the proposed well which would affect the spacing or siting Yes No
	there been any unit or other a osed well? 🦳 Yes 🌘 No	greements put in place that could affect the permitting or operation of this
	e there been any changes to th osed location? 🔘 Yes 🌘	e access route including ownership, or rightof- way, which could affect the No
• Has t	the approved source of water	for drilling changed? 🤵 Yes 📵 No
		ges to the surface location or access route which will require a change in the onsite evaluation? 🔵 Yes 🌘 No
• Is bo	onding still in place, which cov	ers this proposed well? 🌘 Yes 🔘 No
Signature:	Jennifer Thomas	Date: 7/8/2015
- Title:	Regulatory Specialist Represer	nting: KERR-MCGEE OIL & GAS ONSHORE, L.P.

RECEIVED: Jul. 08, 2015

Sundry Number: 72554 API Well Number: 43047527150000

			1			
	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCE		FORM 9			
	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 0149075					
SUNDF	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE					
	oposals to drill new wells, significantly or reenter plugged wells, or to drill horizor n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES			
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 921-23C1CS			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047527150000			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18t	h Street, Suite 600, Denver, CO, 80217	PHONE NUMBER: 3779 720 929-0	9. FIELD and POOL or WILDCAT: 4BATERAL BUTTES			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0790 FNL 1963 FWL			COUNTY: UINTAH			
QTR/QTR, SECTION, TOWNS	HIP, RANGE, MERIDIAN: 23 Township: 09.0S Range: 21.0E Merid	ian: S	STATE: UTAH			
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA			
TYPE OF SUBMISSION		TYPE OF ACTION				
.,	ACIDIZE	ALTER CASING	CASING REPAIR			
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME			
6/24/2016	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE			
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION			
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK			
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION			
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON			
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL			
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION			
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:			
12 DESCRIPE PROPOSED OF			,			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you. Approved by the Uturne 127;52016 f Oil, Gas and Mining						
			Date:			
			By: bally			
NAME (PLEASE PRINT)	PHONE NUMBE	ER TITLE				
Joel Malefyt	720 929-6828	Regualtory Analyst				
SIGNATURE N/A		DATE 6/24/2016				

Sundry Number: 72554 API Well Number: 43047527150000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047527150000

API: 43047527150000 **Well Name:** NBU 921-23C1CS

Location: 0790 FNL 1963 FWL QTR NENW SEC 23 TWNP 090S RNG 210E MER S

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Date Original Permit Issued: 8/27/2012

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RECEIVED: Jun. 24, 2016